IN THE UNITED STATES DISTRICT COURT FOR THE EASTERN DISTRICT OF VIRGINIA RICHMOND DIVISION

GOLDEN BETHUNE-HILL, et al.,

Plaintiffs,

v.

VIRGINIA STATE BOARD OF ELECTIONS, et al.,

Defendants.

VIRGINIA HOUSE OF DELEGATES, et al.,

Intervenor-Defendants.

Civil Action No. 3:14-cv-00852-REP-GBL-BMK

- I, Kevin J. Hamilton, state that I have personal knowledge of the matters set forth in this declaration and, if sworn as a witness, would testify as follows:
- 1. I am an attorney practicing at the firm of Perkins Coie LLP and served as a lead counsel for the plaintiffs in this matter.
- 2. Attached as Exhibit A is a true and correct copy of region maps for the Richmond, Tri-City, South Hampton Roads, and North Hampton Roads regions in Plaintiffs' Remedial Plan A.
- 3. Attached as Exhibit B is a true and correct copy of maps of each of the Challenged Districts in Plaintiffs' Remedial Plan A.
- 4. Attached as Exhibit C is a true and correct copy of a Population Summary and Voting Age Population Summary for Plaintiffs' Remedial Plan A.

- 5. Attached as Exhibit D is a true and correct copy of a Measures of Compactness report for Plaintiffs' Remedial Plan A.
- 6. Attached as Exhibit E is a true and correct copy of a Political Subdivisions Split Between Districts report for Plaintiffs' Remedial Plan A.
- 7. Attached as Exhibit F is a true and correct copy of region maps for the Richmond, Tri-City, South Hampton Roads, and North Hampton Roads regions in Plaintiffs' Remedial Plan B.
- 8. Attached as Exhibit G is a true and correct copy of maps of each of the Challenged Districts in Plaintiffs' Remedial Plan B.
- 9. Attached as Exhibit H is a true and correct copy of a Population Summary and Voting Age Population Summary for Plaintiffs' Remedial Plan B.
- 10. Attached as Exhibit I is a true and correct copy of a Measures of Compactness report for Plaintiffs' Remedial Plan B.
- 11. Attached as Exhibit J is a true and correct copy of a Political Subdivisions Split Between Districts report for Plaintiffs' Remedial Plan B.

I declare under penalty of perjury that the foregoing statements are true and correct.

Executed this 2nd day of November, 2018 in Philadelphia, Pennsylvania.

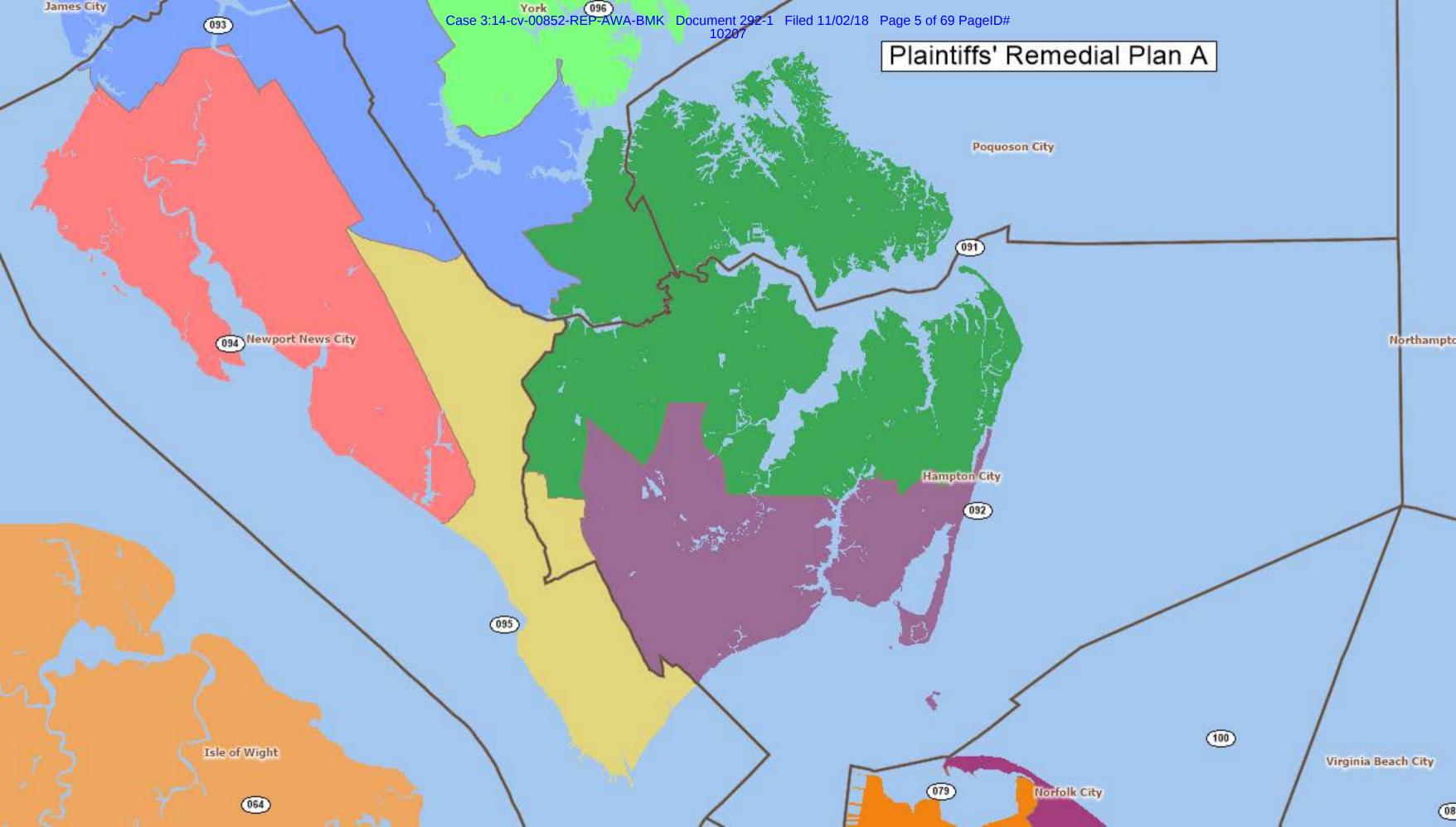
Kevin J. Hamilton

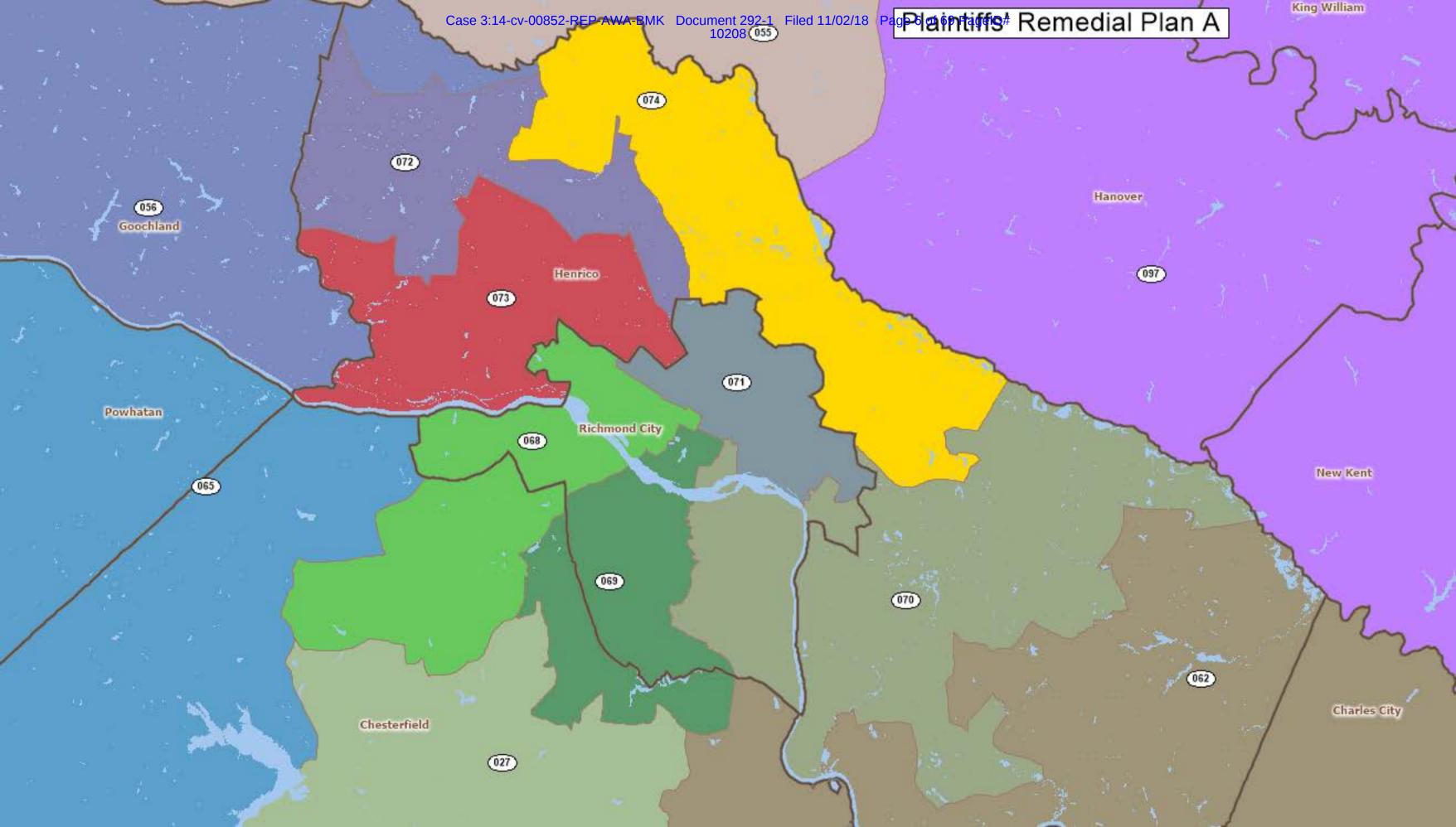
CERTIFICATE OF SERVICE

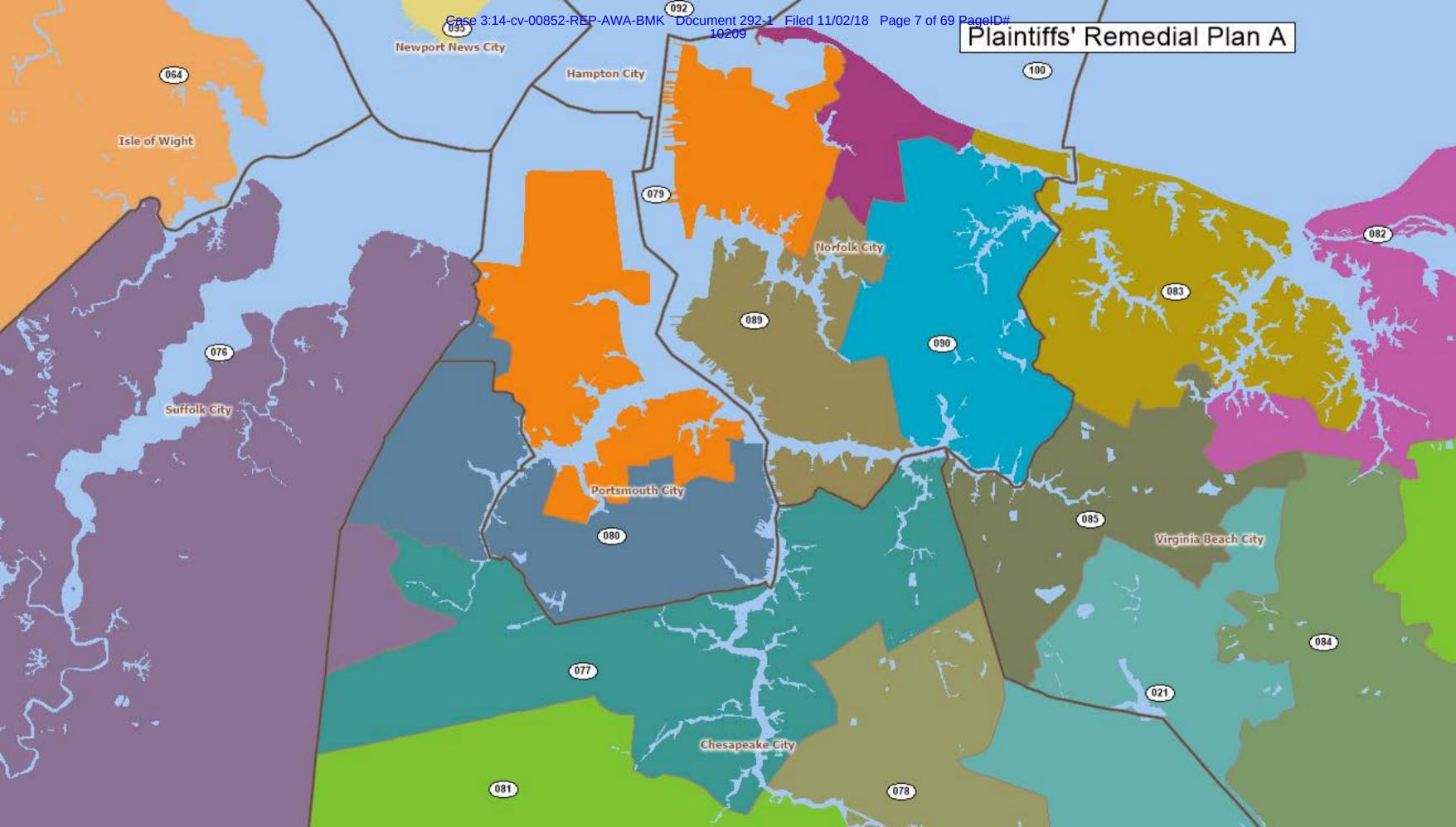
I hereby certify that on the 2nd day of November, 2018, I electronically filed the foregoing with the Clerk of the Court using the CM/ECF system, which will send a copy to counsel of record.

/s/ Aria Branch ARIA BRANCH

EXHIBIT A







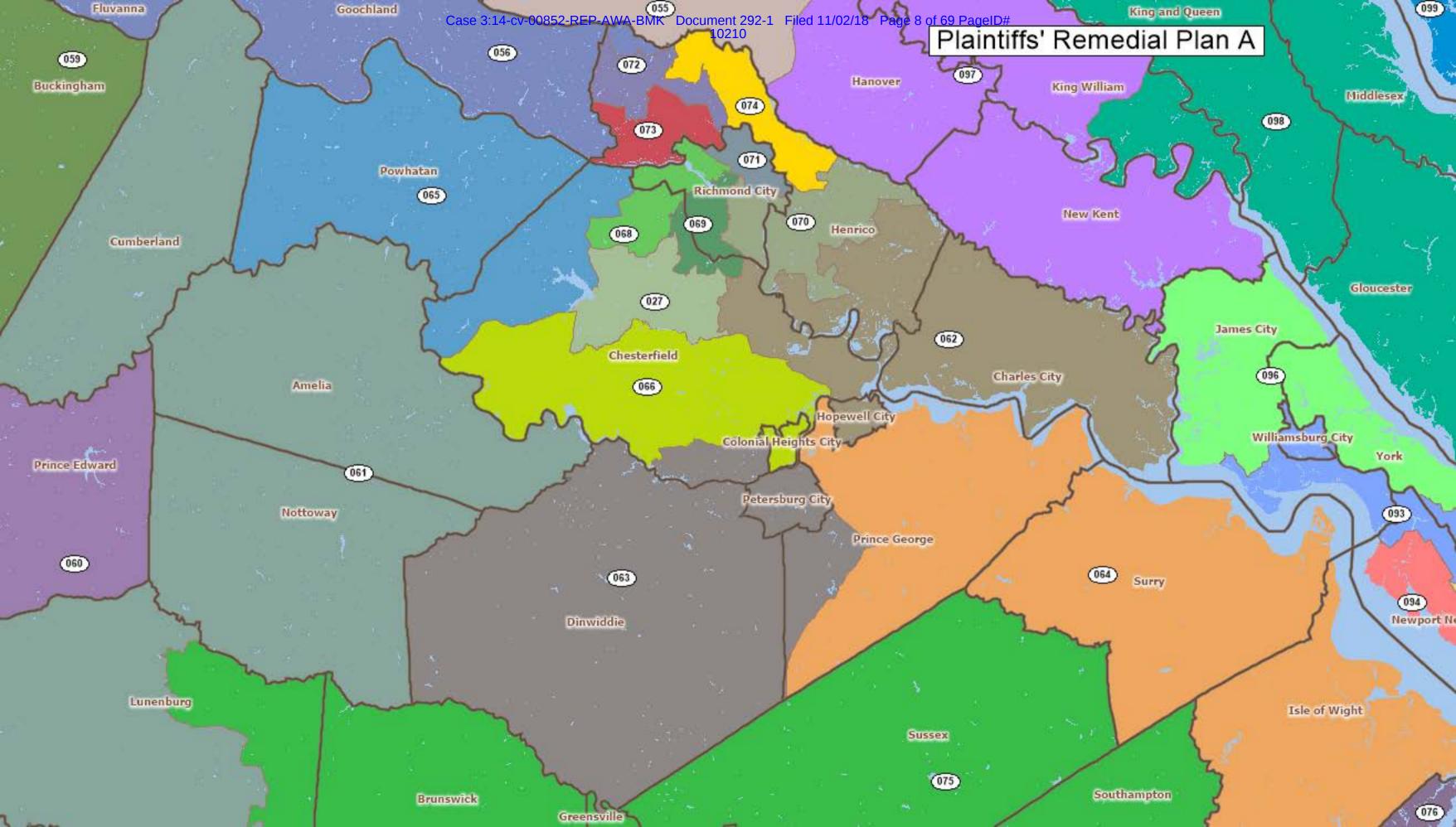
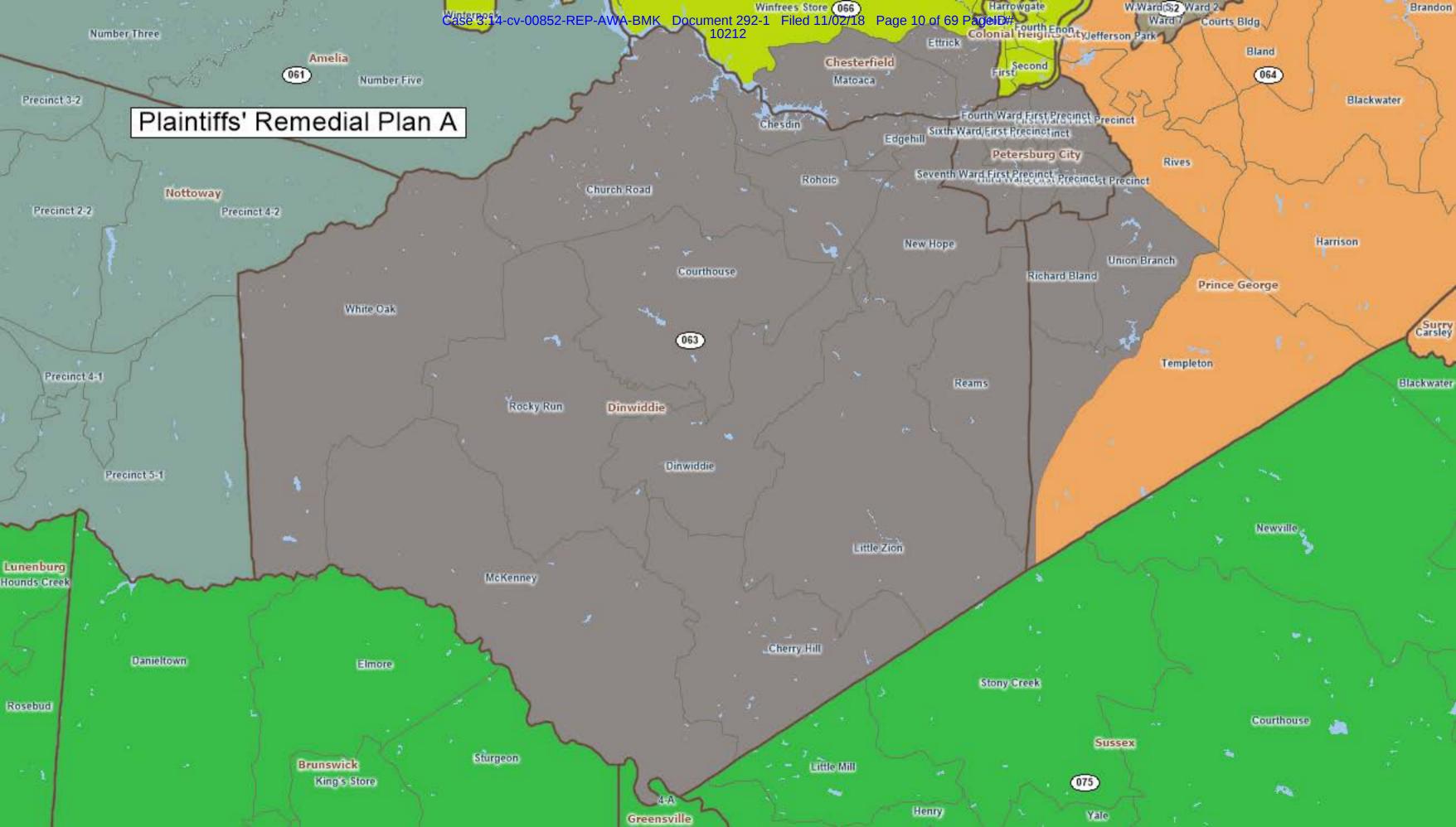
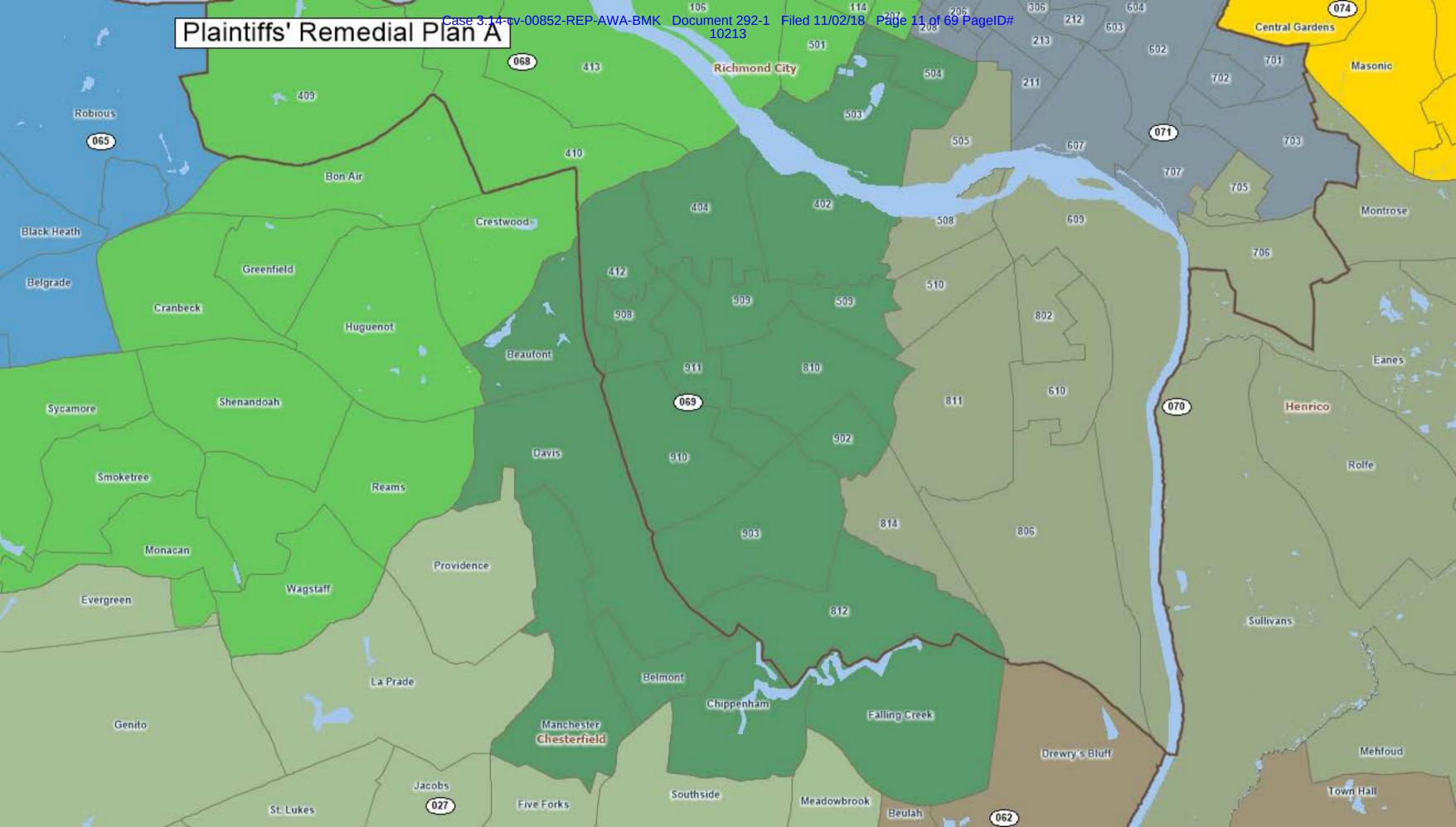
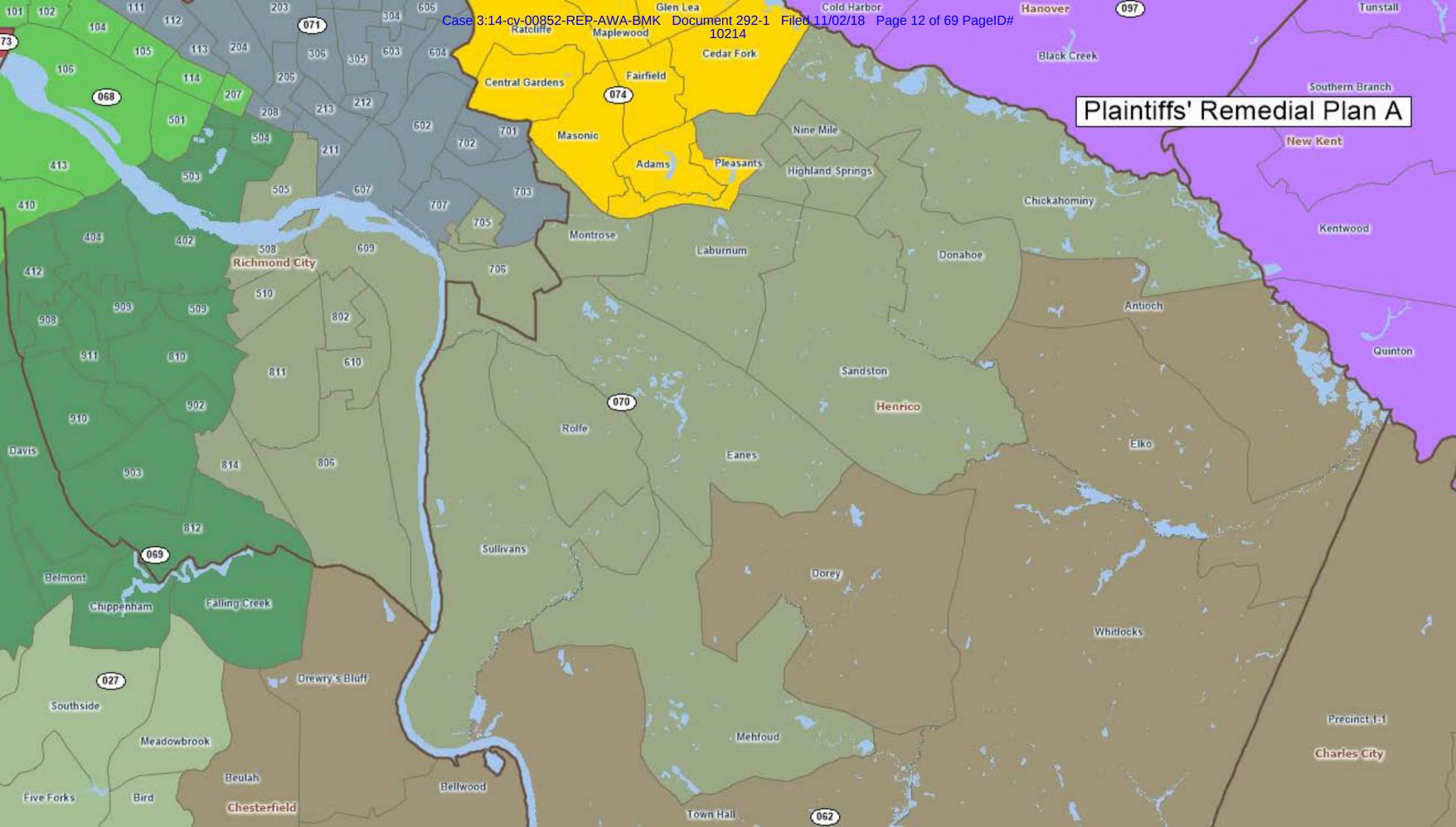
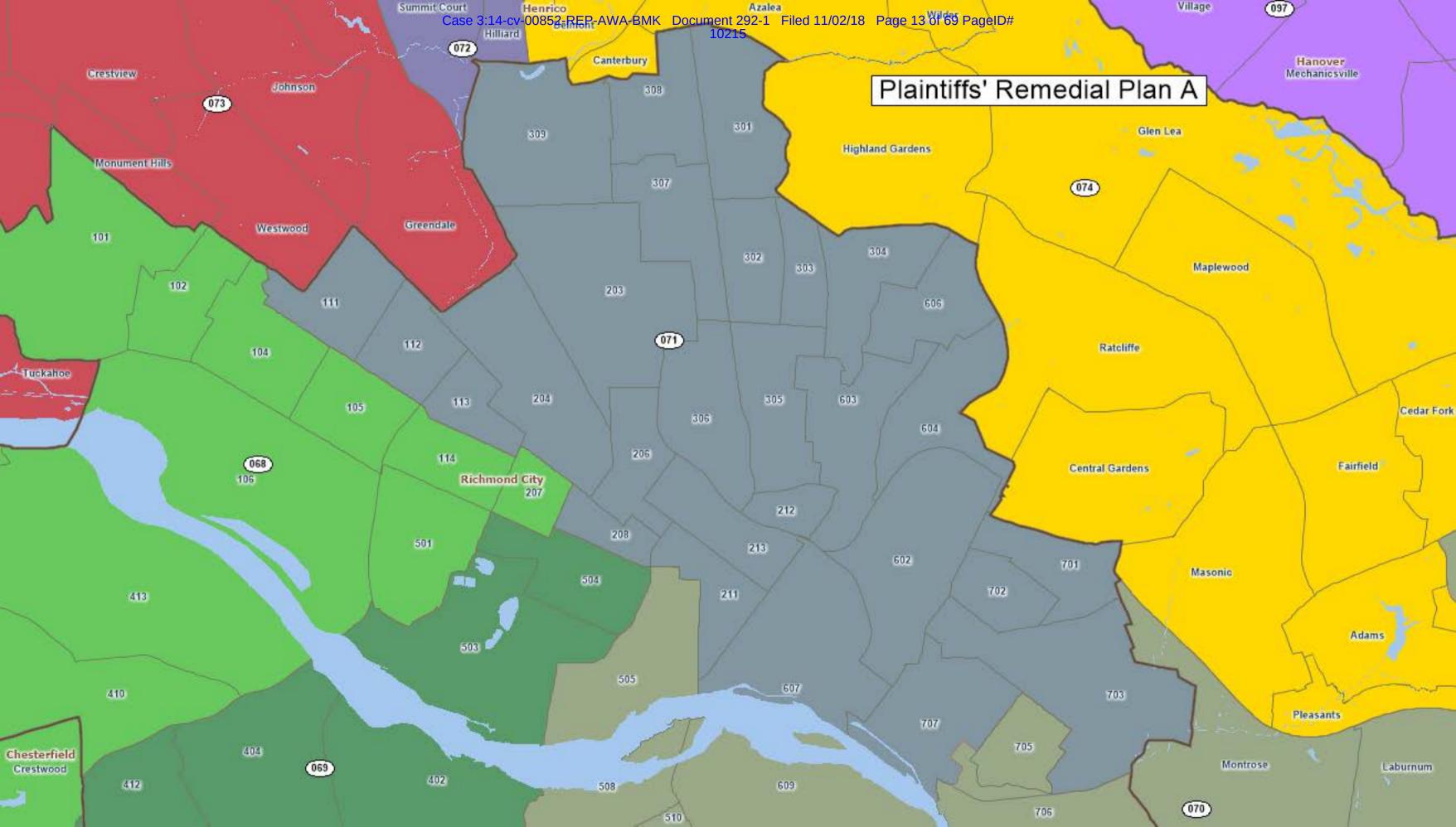


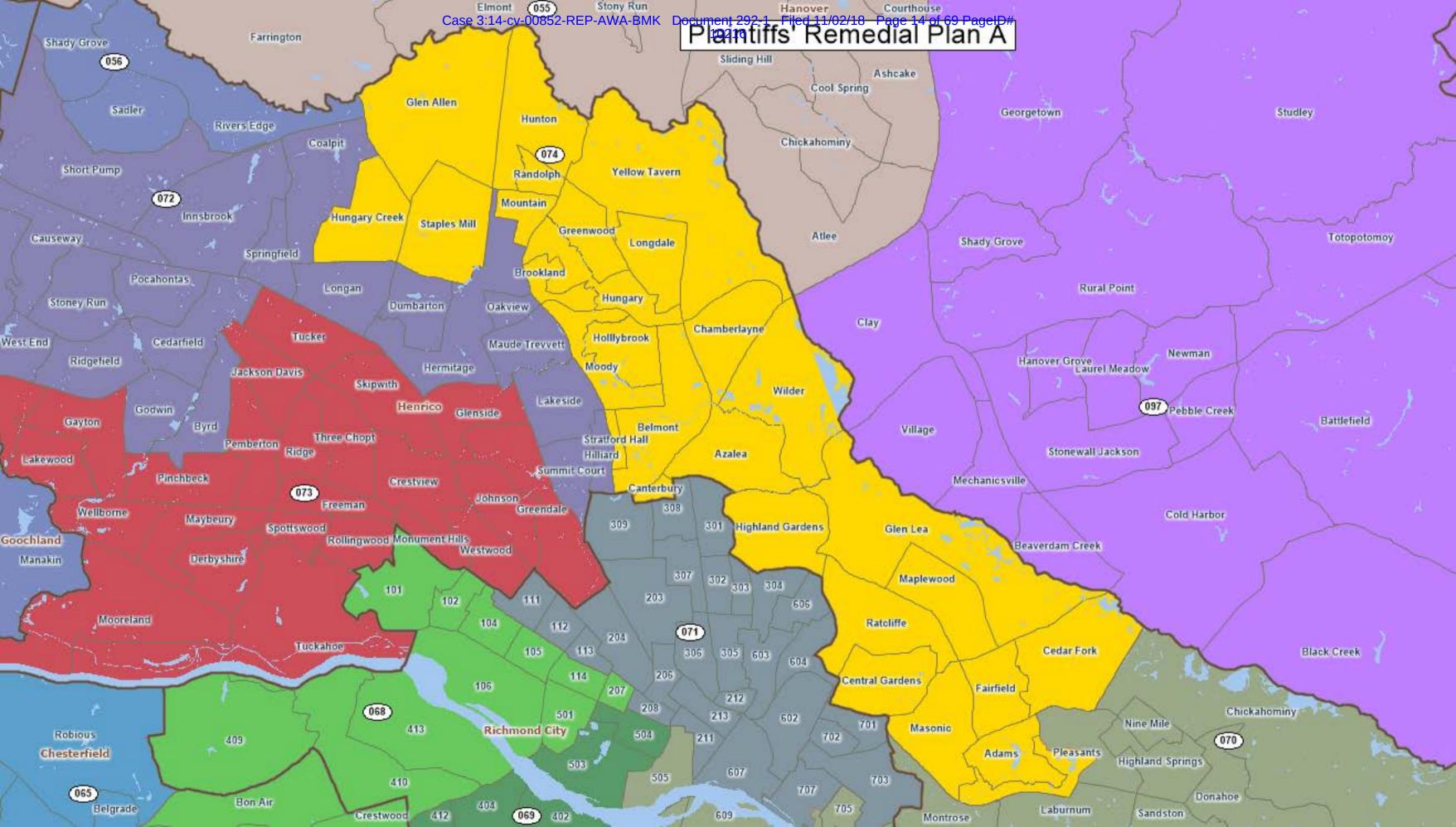
EXHIBIT B

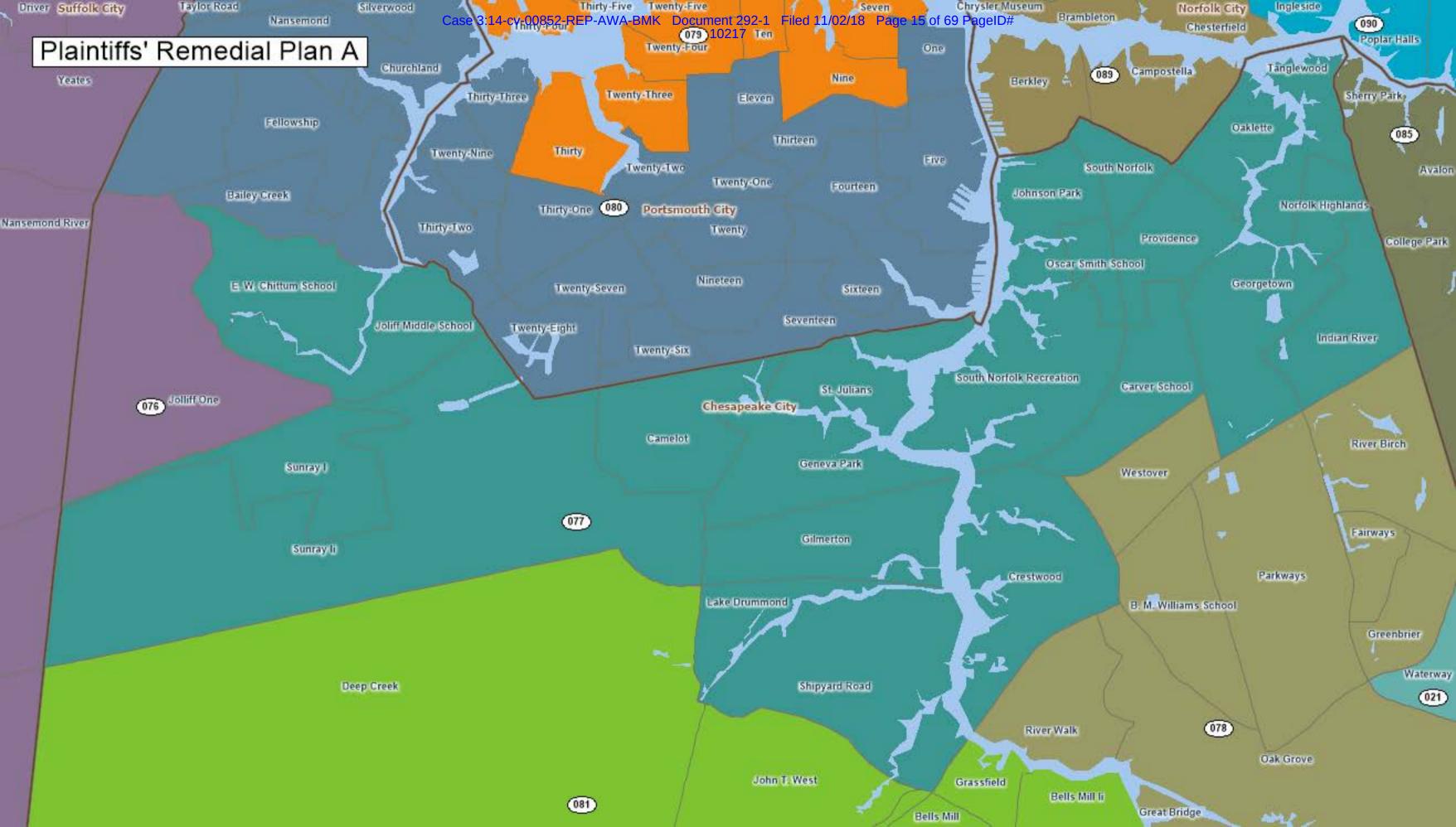


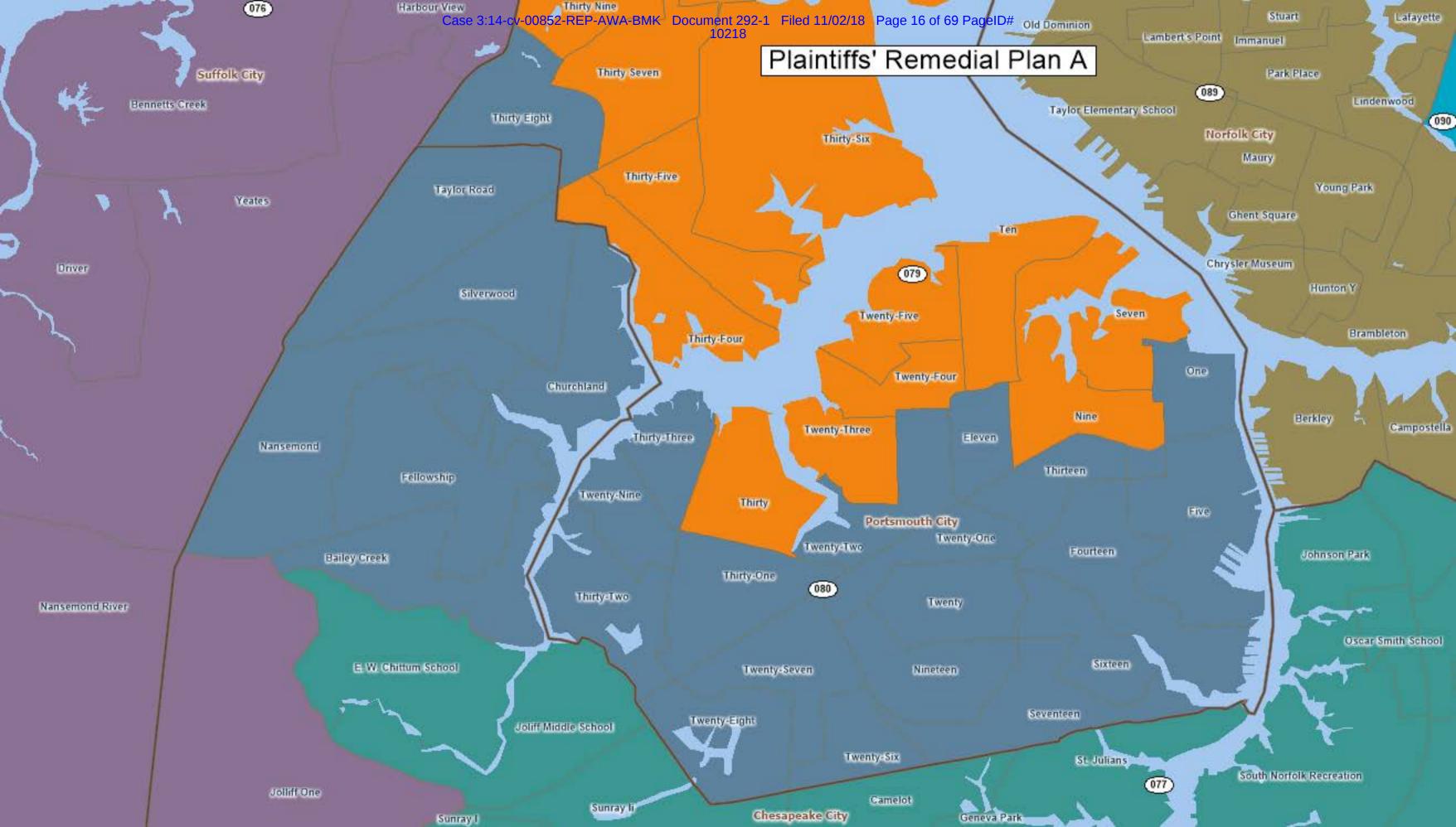


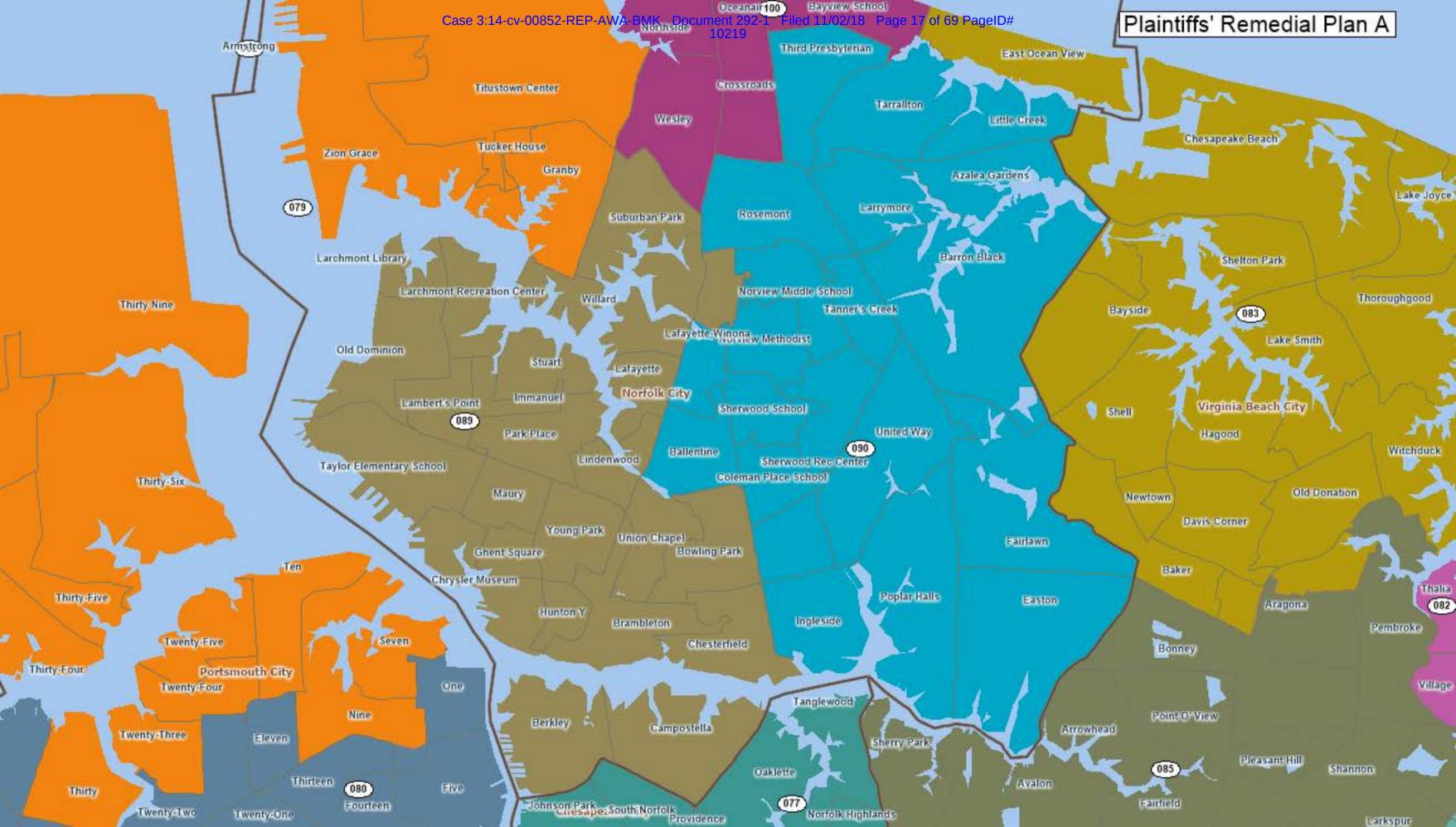












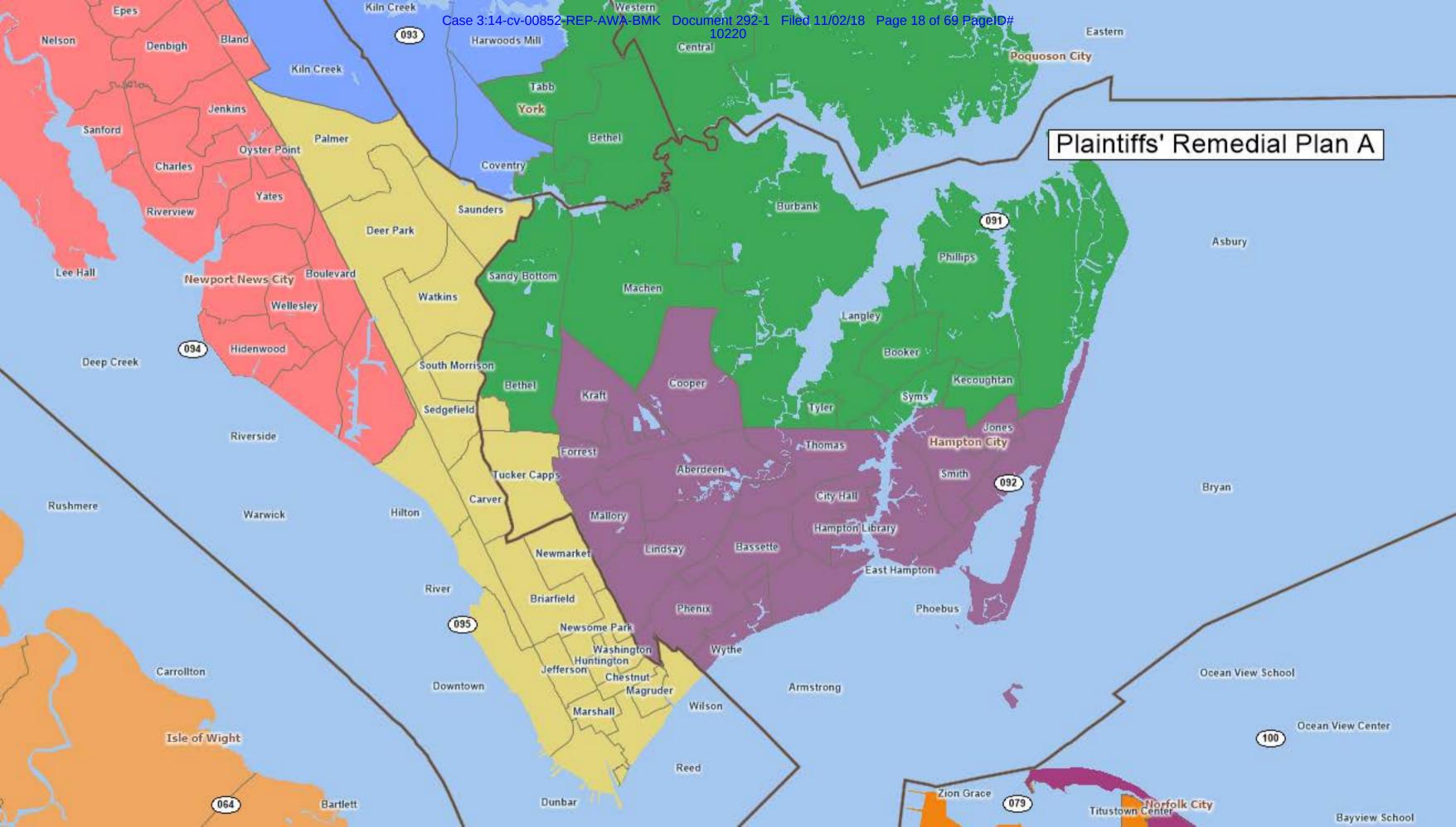


EXHIBIT C

Plaintiffs' Remedial Plan A Population Summary % Black

	7-1-1		.,			61. . 1 . 1 . 1	% Black												
HD	Total Population	Deviation	% Deviation	White	% White	Black (alone or in Part)	(alone or in Part)	Riack	K Black	Hispanic	% Histophic	AIAN	€ AIAN	Arisa	% Aclan	Mau-Cl	% HawPi	Other	e Other
51001	80,508	498		76,238	94.7%	2,938	3.6%	2,642	3.3%	1,032	1.3%	198	0.2%	273	0.3%	21	0.0%	378	0.5%
51002	79,491	-519		45,289	57.0%	21,234	26.7%	-	24.3%	14,019	17.6%	389	0.5%	4,714	5.9%	143	0.2%	5,537	7.0%
51003	80,583	573		77,178	95.8%	2,453	3.0%	2,187	2.7%	471	0.5%	89	0.1%	361	0.4%	10	0.0%	141	0.2%
51004	80,446			77,768	96.7%	1,687	2.1%	1,487	1.8%	833	1.0%	127	0.2%	215	0.3%	9	0.0%	323	0.4%
51005 51006	80,600 79,608	590 -402		76,060 76,371	94.4% 95.9%	2,670 1,847	3.3% 2.3%	2,217 1,491	2.8% 1.9%	2,219 1,348	2.8% 1.7%	149 144	0.2% 0.2%	279 233	0.3% 0.3%	24	0.0%	963	1.2%
51007	80,146	136		74,108	92.5%	3,719	4.6%	3,148	3.9%	1,636	2.0%	144	0.2%	1,036	1.3%	11 18	0.0%	620 445	0.8% 0.6%
51008	80,685	675		74,011	91.7%	3,761	4.7%	3,262	4.0%	1,558	1.9%	167	0.2%	1,519	1.9%	18	0.0%	595	0.7%
51009	80,574	564	0.70%	69,709	86.5%	8,461	10.5%	7,855	9.7%	2,349	2.9%	205	0.3%	272	0.3%	13	0.0%	1,447	1.8%
51010	80,617	607		60,881	75.5%	7,711	9.6%	6,650	8.2%	9,800	12.2%	276	0.3%	5,836	7.2%	34	0.0%	3,995	5.0%
51011	80,132	122		47,632	59.4%	28,095	35.1%		33.0%	4,734	5.9%	213	0.3%	1,374	1.7%	49	0.1%	2,072	2.6%
51012 51013	80,492 80,579	482 569		70,200 48,642	87.2% 60.4%	4,022 11,894	5.0%	3,42B 10,402	4.3% 12.9%	1,959 20,063	2.4% 24.9%	160 397	0.2% 0.5%	4,443 7,610	5.5%	22 65	0.0%	587 9,494	0.7% 11.8%
51014	79,407	-603		47,862	60.3%	29,125	36.7%		35.9%	2,407	3.0%	145	0.2%	561	9.4% 0.7%	24	0.1%	1,271	1.6%
51015	80,630			75,913	94.1%	1,994	2.5%	1,507	1.9%	3,386	4.2%	189	0.2%	361	0.4%	17	0.0%	1,474	1.8%
51016	79,692	-318	-0.40%	54,827	68.8%	22,513	28.3%	21,837	27.4%	2,628	3.3%	189	0.2%	368	0.5%	7	0.0%	1,389	1.7%
51017	80,631	621		71,273	88.4%	5,959	7.4%	5,176	6.4%	2,059	2.6%	157	0.2%	1,880	2.3%	22	0.0%	639	0.8%
51018 51019	79,450 80,080	-560 70		69,073 73,554	86.9%	6,596	8.3%	5,720	7.2% 5.8%	4,292	5.4%	260	0.3%	943 332	1.2%	45	0.1%	1,563	2.0%
51020	79,334	-676		69,268	91.9% 87.3%	5,190 7,701	6.5% 9.7%	4,655 6,665	8.4%	1,019 2,580	1.3% 3.3%	217 173	0.3% 0.2%	494	0.4%	20 21	0.0%	241 1,054	0.3% 1.3%
51021	79,608	-402		45,487	57.1%	21,051	26.4%		24.1%	5,567	7.0%	225	0.3%	9,178	11.5%	95	0.1%	1,559	2.0%
51022	79,307	-703		59,135	74.6%	17,825	22.5%		21.5%	1,773	2.2%	192	0.2%	1,019	1.3%	26	0.0%	565	0.7%
51023	79,330	-680	-0.85%	62,083	78.3%	13,394	16.9%	12,524	15.8%	2,087	2.6%	313	0.4%	2,010	2.5%	34	0.0%	914	1.2%
51024	79,678	-332		70,684	88.7%	7,017	8.8%	6,459	8.1%	1,424	1.8%	428	0.5%	442	0.6%	21	0.0%	446	0.6%
51025	80,011	1 678		73,736 67,806	92.2% 84.0%	3,245	4.1%	2,727	3.4%	2,893	3.6%	148	0.2%	950	1.2%	11	0.0%	1,258	1.6%
51026 51027	80,688 79,469	-541		52,148	65.6%	4,260 20,582	5.3% 25.9%	3,531 19,296	4.4% 24.3%	9, 9 06 5,628	12.3% 7.1%	264 321	0.3% 0.4%	1,878 2,440	2.3% 3.1%	64 49	0.1% 0.1%	5,170 2,891	6.4% 3.6%
51028	79,304	-706		56,206	70.9%	16,476		14,841	18.7%	7,076	8.9%	403	0.5%	1,961	2.5%	85	0.1%	2,658	3.4%
51029	79,851	-159	-0.20%	68,575	85.9%	5,669	7.1%	4,732	5.9%	6,597	8.3%	248	0.3%		1.4%	20	0.0%	3,382	4.2%
51030	80,583	573		62,914	78.1%	13,207		11,938	14.8%	5,030	6.2%	275	0.3%	802	1.0%	59	0.1%	2,448	3.0%
51031	79,210			50,345	63.6%	17,494		15,955	20.1%	11,324	14.3%	470	0.6%	4,561	5.8%	130	0.2%	4,161	5.3%
\$1032 \$1033	80,268 80,550	258 540		55,73B 70,393	69.4% 87.4%	6,846 4,657	8.5% 5.8%	5,929 3,883	7.4% 4.8%	7,420 5,090	9.2% 6.3%	213 194	0.3%	12,951 2,203	16.1% 2.7%	40 47	0.0% 0.1%	2,189 1,784	2.7% 2.2%
51034	80,722	712		61,693	76.4%	3,137	3.9%	2,618	3.2%	5,819	7.2%	152		11,696	14.5%	37	0.0%	1,729	2.1%
51035	80,213	203		53,780	67.0%	4,431	5.5%	3,816	4.8%	8,037	10.0%	212		16,330	20.4%	56	0.1%	2,780	3.5%
51036	79,746		-0.33%	53,210	66.7%	8,034	10.1%	7,138	9.0%	8,819	11.1%	247	0.3%	12,776	16.0%	32	0.0%	3,187	4.0%
51037	80,255			47,377	\$9.0%	7,154	8.9%	6,282	7.8%	10,555	13.2%	258		19,197	23.9%	47	0.1%	3,605	4.5%
51038 51039	80,758 80,710	748 700		42,448	52.6% 58.1%	8,542	10.6% 10.3%	7,896	9.8%	25,694	31.8%	508 384		15,293	18.9%	63 77		10,919	13.5%
51040	80,710	719		46,876 55,837	69.2%	8,318 5,891	7.3%	7,585 5,095	9.4% 6.3%	15,374 7,868	19.0% 9.7%	240		15,794 13,863	19.6% 17.2%	78	0.1% 0.1%	6,603 2,649	8.2% 3.3%
51041	80,792	782		54,579	67.6%	5,343	6.6%	4,637	5.7%	9,941	12.3%	183		15,266	18.9%	62	0.1%	2,885	3.6%
51042	79,964	-46		55,174	69.0%	9,089	11.4%	8,114	10.1%	7,461	9.3%	261		11,008	13.8%	104	0.1%	1,939	2.4%
51043	80,750	740		47,821	59.2%	15,299		14,109	17.5%	12,611	15.6%	291	0.4%	9,989	12.4%	81	0.1%	4,915	6.1%
51044	80,796			44,799	55.4%	18,844		17,690	21.9%	19,469	24.1%	413	0.5%	5,310	6.6%	90	0.1%	9,136	11.3%
51045 51046	80,240 80,333			59,905 41,531	74.7% 51.7%	10,197 23,914	12.7% 29.8%	9,434 22,577	11.8% 28.1%	11,072 13,746	13.8% 17.1%	363 293	0.5% 0.4%	3,145 6,546	3.9% 8.1%	63 87	0.1% 0.1%	4,791 5,911	6.0% 7.4%
51047	80,757			61,673	76.4%	4,477	5.5%	3,900	4.8%	10,754	13.3%	427	0.5%	7,50B	9.3%	56	0.1%	4,263	5.3%
51048	79,492			63,919	80.4%	3,802	4.8%	3,291	4.1%	5,831	7.3%	179	0.2%	8,184	10.3%	48	0.1%	1,318	1.7%
51049	80,609	599	0.75%	42,754	53.0%	14,797	18.4%	13,754	17.1%	21,749	27.0%	497	0.6%	10,174	12.6%	105	0.1%	9,557	11.9%
51050	80,677	667		50,040	62.0%	12,619		11,036	13.7%	21,171	26.2%	450	0.6%	5,698	7.1%	114	0.1%	9,436	11.7%
51051	80,372	362 -720		55,264	68.8%	13,854		12,462	15.5%	10,775	13.4%	444	0.6%		5.9%	85	0.1%	3,777	4.7%
51052 51053	79,290 80,049			33,564 48,549	42.3% 60.6%	26,018 4,895	6.1%	4,294	30.1% 5.4%	23,127 16,791	29.2% 21.0%	400	0.8%	5,377 16,424	20.5%	99 45	0.1%	7,101	13.8% 8.9%
51054				5B,394	72.9%	15,595		14,128	17.6%	6,404	8.0%	283	0.4%		2.4%	86	0.1%		3.2%
51055	79,578	-432	-0.54%	63,245	79.5%	13,636	17.1%	12,766	16.0%	2,068	2.6%	305	0.4%	881	1.1%	36	0.0%	695	0.9%
51056	80,046			61,943	77.4%	13,934		13,107	16.4%	1,804	2.3%	227	0.3%		3.4%	27	0.0%	541	0.7%
51057 51058	80,778 80,767			55,937 71,271	69.2% 88.2%	14,978 6,129		13,861 5,290	17.2% 6.5%	5,761 2,569	7.1% 3.2%	250 160	0.3% 0.2%		7.2% 1.6%	49 20	0.1% 0.0%	2,396 1,071	3.0% 1.3%
51059	79,345			61,136	77.1%	16,499		15,647	19.7%	1,436	1.8%	203	0.3%	457	0.6%	34	0.0%	529	0.7%
51060				50,287	63.5%	27,314		26,636	33.6%	1,407	1.8%	227	0.3%	368	0.5%	22	0.0%	620	0.8%
51061	79,792	-218	-0.27%	50,089	62.8%	27,647	34.6%	26,906	33.7%	2,085	2.6%	259	0.3%	345	0.4%	23	0.0%	958	1.2%
51062				47,885	59.8%	24,481		23,205	29.0%	7,359	9.2%	931	1.2%		2.1%	87	0.1%		4.9%
51063	79,436			32,019	40.3%	45,165		44,174	55.6%	2,391	3.0%	245	0.3%	535	0.7%	37	0.0%	999	1.3%
51064 51065	79,452 79,682			52,144 67,806	65.6% 85. 1%	24,508 7,915		23,500 7,345	29.6% 9.2%	2,744 1,890	3.5% 2.4%	359 152	0.5% 0.2%	789 2,526	1.0% 3.2%	119 29	0.1% 0.0%	767 458	1.0% 0.6%
51066				59,495	75.0%	14,976		13,977	17.6%	3,788	4.8%	301	0.4%		2.6%	45	0.1%		1.9%
\$1067	79,633			53,298	66.9%	4,972		4,333	5.4%	7,838	9.8%	142		16,199	20.3%	75	0.1%	2,654	3.3%
\$1068	79,218			63,304	79.9%	11,087		10,339	13.1%	3,428	4.3%	240	0.3%		3.1%	23	0.0%	1,224	1.5%
51069	79,489			26,051	32.8%	43,309		41,984	52.8%	11,664	14.7%	403	0.5%		2.0%	99	0.1%		9.0%
51070 51071				25,162 30,507	31.7% 38.4%	50,405 44,831		49,129 43,728	61.9% 55.0%	3,721 1,909	4.7% 2.4%	413 203	0.5% 0.3%	888 2,576	1.1% 3.2%	52 38	0.1%	1,898 597	2.4% 0.8%
51072				57,948	72.0%	10,830		9,958	12.4%	4,486	5.6%	200	0.2%		10.6%	27	0.0%		2.2%
51073	79,730			58,639	73.5%	11,104		10,286		6,005	7.5%	234	0.3%	5,928	7.4%	39	0.0%	2,675	3.4%
51074	79,880			30,275	37.9%	44,587		43,318	54.2%	2,889	3.6%	209	0.3%		3.6%	41	0.1%		1.5%
51075	79,287			35,158	44.3%	42,555		41,910	52.9%	1,616	2.0%	203	0.3%	295	0.4%	24	0.0%	761 644	1.0%
51076 51077	79,530 80,448			40,644 35,638	51.1% 44.3%	35,826 40,456		34,734 39,019	43.7% 48.5%	2,360 4,100	3.0% 5.1%	248 331	0.3% 0.4%		1.7% 1.7%	52 60	0.1% 0.1%	644 1,541	0.8% 1.9%
51078	80,037			59,510	74.4%	14,949		13,932	17.4%	3,395	4.2%	333	0.4%	•	3.7%	49	0.1%	750	0.9%
51079				46,482	57.9%	27,375		26,253	32.7%	5,989	7.5%	563	0.7%		2.8%	187	0.2%	1,734	2.2%

51080	79,924	-86	-0.11%	32,607	40.8%	44.098	55.2% 42,761	53.5%	2,389	3.0%	336	0.4%	1,229	1.5%	102	0.1%	820	1.0%
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51081	80,691	681		60,992	75.6%	14,384	17.8% 13,174	16.3%	4,450	5.5%	298	0.4%	2,119	2.6%	96	0.1%	1,245	1.5%
51082	79,504	·506	-0.63%	64,133	80.7%	10,250	12.9% 9,023	11.3%	4,668	5.9%	30 9	0.4%	2,043	2.6%	98	0.1%	1,350	1.7%
51083	80,774	764	0.95%	53,040	65.7%	20,669	25.6% 19,256	23.8%	5,123	6.3%	332	0.4%	3,478	4.3%	133	0.2%	1,647	2.0%
51084	79,655	-355	-0.44%	50,866	63.9%	18,664	23.4% 17,068	21.4%	6,111	7.7%	301	0.4%	5,968	7.5%	160	0.2%	1,730	2.2%
51085	80,754	744	0.93%	52,551	65.1%	19,037	23.6% 17,489	21.7%	5,050	6.3%	378	0.5%	5,295	6.6%	117	0.1%	1,634	2.0%
51086	80,747	737	0.92%	46,400	57.5%	7,132	8.8% 6,369	7.9%	17,163	21.3%	351	0.4%	15,998	19.8%	42	0.1%	8,162	10.1%
51087	79,275	-735	-0.92%	44,093	55.6%	7,429	9.4% 6,483	8.2%	11,761	14.8%	236	0.3%	19,678	24.8%	54	0.1%	5,109	6.4%
51088	80,191	181	0.23%	60,158	75.0%	12,879	16.1% 11,480	14.3%	7,188	9.0%	261	0.3%	2,106	2.6%	95	0.1%	3,356	4.2%
51089	80,517	507	0.63%	31,318	38.9%	45,497	56.5% 44,279	55.0%	2,558	3.2%	232	0.3%	1,913	2.4%	56	0.1%	751	0.9%
\$1090	79,228	·782	-0.98%	33,391	42.1%	38,860	49.0% 37,049	46.B%	5,285	6.7%	341	0.4%	3,379	4.3%	114	0.1%	1,859	2.3%
51091	79,503	·S07	-0.63%	\$1,706	65.0%	22,177	27.9% 20,508	25.8%	3,604	4.5%	332	0.4%	2,719	3.4%	94	0.1%	1,009	1.3%
51092	79,959	-51	-0.06%	27,332	34.2%	49,076	61.4% 47,056	58.9%	3,528	4.4%	347	0.4%	1,317	1.6%	82	0.1%	1,037	1.3%
51093	79,232	-778	-0.97%	53,806	67.9%	18,041	22.8% 16,524	20.9%	5,061	6.4%	268	0.3%	3,804	4.8%	137	0.2%	1,673	2.1%
51094	79,268	-742	-0.93%	45,286	57.1%	27,456	34.6% 25,249	31.9%	6,442	8.1%	389	0.5%	2,547	3.2%	159	0.2%	2,051	2.6%
51095	79,667	-343	-0.43%	32,062	40.2%	42,862	53.8% 40,935	51.4%	4,917	6.2%	367	0.5%	1,271	1.6%	81	0.1%	2,105	2.6%
51096	79,217	-793	-0.99%	62,755	79.2%	11,949	15.1% 10,948	13.8%	3,357	4.2%	266	0.3%	2,069	2.6%	78	0.1%	1,001	1.3%
51097	79,386	-624	-0.78%	67,533	85.1%	8,951	11.3% 8,379	10.6%	1,505	2.0%	597	0.8%	947	1.2%	29	0.0%	503	0.6%
51098	79,251	-759	-0.95%	63,155	79.7%	13,769	17.4% 12,959	16.4%	1,870	2.4%	403	0.5%	519	0.7%	23	0.0%	536	0.7%
S1099	80,332	322	0.40%	\$6,801	70.7%	20,709	25.8% 19,785	24.6%	2,971	3.7%	353	0.4%	551	0.7%	27	0.0%	1,183	1.5%
51100	80,680	670	0.84%	50,700	62.8%	24,232	30.0% 23,019	28.5%	6,746	8.4%	403	0.5%	1,280	1.6%	125	0.2%	2,785	3.5%

Plaintiffs' Remedial Plan A Voting Age Population Summary % Black

	Matina Ann		•			Block total	% Black												
HD	Voting Age Population	Deviation	% Deviation	White	% White	Black (alone or in Part)	(alone or in Part)	Black	% Black	Hispanie	% Hispanic	ΔΙΔΝ	% AIAN	Atlan	% Asian	Hawpt	% HawPi	Other	4 Other
51001	64,221	498	0.62%	60,648	94.4%	2,537	4.0%		3.8%	754	1.2%	170	0.2%	226	0.4%	12	0.0%	284	0.4%
51002	56,163	-519	-0.65%	33,408	59.5%			13,382	23.8%	8,879	15.8%	264	0.3%		6.2%	100	0.1%	3,616	4.5%
51003 51004	64,745 64,195	573 436	0.72%	62,065	95.9%		3.0%	-	2.9%	327	0.5%	70	0.1%	294	0.5%	8	0.0%	83	0.1%
51005	64,337	590	0.54% 0.74%	62,070 61,274	96.7% 95.2%	-	2.2% 2.7%	-	2.1% 2.6%	541 1,353	0.8% 2.1%	97 117	0.1% 0.1%	161 211	0.3% 0.3%	3 18	0.0%	230 622	0.3% 0.8%
51006	62,988	-402	-0.50%	60,788	96.5%	-	2.0%		1.8%	813	1.3%	113	0.1%	171	0.3%	11	0.0%	374	0.5%
51007	64,401	136	0.17%	59,855	92.9%	2,681	4.2%		3.8%	1,137	1.8%	114	0.1%	922	1.4%	18	0.0%	302	0.4%
51003	63,203	675	0.84%	\$8,658	92.8%		4.1%		3.8%	1,012	1.6%	128	0.2%	_	1.7%	16	0.0%	397	0.5%
51009 51010	64,142 57,050	564 607	0.70%	56,131	87.5%	•	10.0%	-	9.8%	1,388	2.2%	165	0.2%	208	0.3%	13	0.0%	896	1.1%
51011	62,356	122	0.76% 0.15%	44,095 39,559	77.3% 63.4%		9.0% 31.6%	-	8.4% 30.7%	6,259 3,146	11.0% 5.0%	173 174	0.2% 0.2%		7.1% 1.7%	28 33	0.0%	2,676 1,402	3.3% 1.7%
51012	69,034	482	0.60%	60,408	87.5%	-	4.6%		4.2%	1,618	2.3%	138	0.2%	-	5.7%	22	0.0%	484	0.6%
51013	58,290	569	0.71%	36,735	63.0%	7,965	13.7%	7,432	12.8%	12,955	22.2%	288	0.4%		9.6%	46	0.1%	6,227	7.7%
51014	62,379	-603	-0.75%	39,414	63.2%	•		21,176	33.9%	1,461	2.3%	114	0.1%	415	0.7%	15	0.0%	774	1.0%
51015 51016	62,907 63,086	620 -318	0.77% -0.40%	59,863 44,381	95.2% 70.4%	·•	2.0%	1,132 16,985	1.8% 26.9%	2,048 1,595	3.3% 2.5%	150 143	0.2% 0.2%	281 276	0.4% 0.4%	14 5	0.0%	920 849	1.1%
51017	63,576	621	0.78%	57,265	90.1%		6.2%		5.9%	1,309	2.1%	118	0.1%		2.2%	19	0.0%	412	1.1% 0.5%
51018	59,686	-560	-0.70%	52,508	88.0%		7.9%		7.5%	2,635	4.4%	195	0.2%	686	1.1%	36	0.0%	990	1.2%
51019	62,844	70	0.09%	58,171	92.6%	-	6.0%	•	5.8%	639	1.0%	160	0.2%	249	0.4%	15	0.0%	140	0.2%
S1020	62,717	-676	-0.84%	55,842	89.0%	-	8.5%		8.0%	1,608	2.6%	138	0.2%	390	0.6%	16	0.0%	614	0.8%
51021 51022	58,656 61,467	-402 -703	-0.50% -0.88%	34,776 47,057	59.3% 76.6%	•		13,706 12,479	23.4% 20.3%	3,432 1,179	5.9% 1.9%	163 155	0.2% 0.2%	7,249 729	12.4% 1.2%	69 21	0.1% 0.0%	1,080 385	1.4% 0.5%
51023	63,982	-680	-0.85%	51,425	80.4%	9,722	15.2%	-	14.7%	1,543	2.4%	264	0.3%		2.3%	28	0.0%	680	0.5%
\$1024	64,424	-332	-0.41%	57,333	89.0%		8.7%		8.4%	990	1.5%	316	0.4%	375	0.6%	19	0.0%	327	0.4%
51025	61,585	1	0.00%	57,373	93.2%		3.7%	-	3.5%	1,717	2.8%	101	0.1%	656	1.1%	10	0.0%	783	1.0%
51026	65,566	678	0.85%	S6,466	86.1%		4.6%		4.1%	6,380	9.7%	193	0.2%		2.5%	62	0.1%	3,382	4.2%
51027 51028	58,903 58,388	-541 -706	-0.68% -0.88%	40,374 43,126	68.5% 73.9%	•		13,611 10,399	23.1% 17.8%	3,504 4,374	5.9% 7.5%	250 298	0.3% 0.4%		3.1% 2.6%	36 56	0.0% 0.1%	1,836 1,689	2.3% 2.1%
51029	61,320	-159	-0.20%	53,930	87.9%		6.1%	•	5.7%	4,035	6.6%	181	0.2%	849	1.4%	16	0.0%	2,074	2.6%
S1030	61,276	573	0.72%	48,944	79.9%	-	15.4%		14.8%	3,171	5.2%	202	0.3%	595	1.0%	42	0.1%	1,541	1.9%
51031	56,743	-800	-1.00%	37,294	65.7%			11,228	19.8%	7,182	12.7%	307	0.4%	-	5.9%	102	0.1%	2,740	3.5%
51032	55,263	258	0.32%	39,133	70.8%	4,550	8.2%		7.7%	4,881	8.8%	122	0.2%	-	15.9%	32	0.0%	1,500	1.9%
51033 51034	57,140 57,978	540 712	0.67% 0.89%	50,780 44,921	88.9% 77.5%	•	5.1% 3.7%		4.8% 3.4%	3,123 3,835	5.5% 6.6%	135 108	0.2% 0.1%		2.7% 14.7%	38 29	0.0%	1,127 1,138	1.4% 1.4%
51035	62,743	203	0.25%	42,985	68.5%		5.4%		4.9%	5,932	9.5%	146	0.2%		20.1%	51	0.1%	2,065	2.6%
51036	61,859	-264	-0.33%	43,038	69.6%		9.0%		8.4%	6,069	9.8%	164	0.2%		15.4%	29	0.0%	2,172	2.7%
51037	63,480	245	0.31%	38,998	61.4%		8.4%	-	7.7%	7,714	12.2%	191	0.2%	-	23.1%	39	0.0%	2,639	3.3%
51038 51039	62,463	748 700	0.93%	33,887	54.3%	•	9.8%		9.2%	18,684	29.9%	367	0.5%	-	19.6%	41	0.1%	7,851	9.7%
51039	61,870 58,415	700	0.87%	37,283 41,056	60.3% 70.3%		9.4% 6.8%	-	8.9% 6.3%	10,921 5,322	17.7% 9.1%	265 169		12,080 10,133	19.5% 17.3%	58 52	0.1% 0.1%	4,758 1,856	5.9% 2.3%
51041	60,765	782	0.98%	41,973	69.1%		5.9%		5.5%	6,992	11.5%		0.2%		19.1%	46	0.1%	2,058	2.5%
51042	58,066	-46	-0.06%	41,053	70.7%	5,871	10.1%	5,523	9.5%	4,910	8.5%	182	0.2%		14.3%	75	0.1%	1,309	1.6%
51043	62,318	740	0.92%	38,605	61.9%			10,418	16.7%	8,829	14.2%	202	0.3%	-	12.3%	65	0.1%	3,407	4.2%
51044	59,112	786	0.98%	33,967	57.5%			12,763	21.6%	12,893	21.8%	268	0.3%		6.9%	63	0.1%	6,186	7.7%
51045 51046	67,692 66,262	230 323	0.29%	\$1,797 35,868	76.5% 54.1%	•	11.8%	7,546 17,958	11.1% 27.1%	8,358 10,253	12.3% 15.5%	296 238	0.4% 0.3%		4.1% 8.3%	57 74	0.1% 0.1%	3,534 4,315	4.4% 5.4%
51047	68,384	747	0.93%	53,109	77.7%	•	5.2%		4.7%	8,449	12.4%		0.4%	•	9.5%	42	0.1%	3,328	4.1%
51048	64,068	-518	-0.65%	51,895	81.0%	3,124	4.9%		4.4%	4,435	6.9%	148	0.2%		10.4%	42	0.1%	1,000	1.3%
51049	66,373	599	0.75%	36,838	55.5%	-	17.3%	-	16.3%	16,346	24.6%	390	0.5%	•	12.8%	79	0.1%	7,129	8.8%
\$10\$0	SS,689	667 362	0.83%	35,574	63.9%		14.8%	-	13.8%	13,405	24.1%	274 311	0.3%		7.4%	77 67	0.1%	6,115	7.6%
51051 51052	58,448 56,592	-720	0.45% -0.90%	41,641 25,644	71.2% 45.3%		15.8% 31.1%		15.0% 29.7%	6,847 14,987	11.7% 26.5%	414	0.4% 0.5%		6.0% 7.1%	80	0.1% 0.1%	2,469 7,219	3.1% 9.1%
51053	62,827	39	0.05%		62.3%		5.7%		5.2%	12,306		284		13,039	20.8%	40	0.1%	5,151	6.4%
51054	57,249	145	0.18%	42,858	74.9%	-	18.1%	9,896	17.3%	3,932	6.9%	202	0.3%	1,416	2.5%	57	0.1%	1,657	2.1%
51055	59,680	-432		47,737	80.0%		17.0%			1,335	2.2%		0.3%	663	1.1%	24	0.0%	462	0.6%
51056 51057	60,780 68,024	36 768	0.05% 0.96%	47,347 48,829	77.9% 71.8%			10,491		1,094 4,207	1.8% 6.2%		0.2% 0.2%	-	3.0% 7.6%	24 34	0.0%	328 1,682	0.4% 2.1%
51058	61,395	757		\$4,936	89.5%			4,117	6.7%	1,524	2.5%		0.1%	940	1.5%	17	0.0%	642	0.8%
51059	62,208	-665	-0.83%		77.8%			12,344	19.8%	941	1.5%		0.2%	340	0.5%	26	0.0%	361	0.5%
51060	62,712	-791		41,036	65.4%			20,290		927	1.5%		0.2%	289	0.5%	19	0.0%	389	0.5%
51061	63,280	-218	-0.27%	-	63.9%	-		21,112		1,421	2.2%		0.3%	258	0.4%	15	0.0%	657	0.8%
51062 51063	60,706 62,461	55 -574	0.07%	38,169 25,695	62.9% 41.1%			16,594 34,613	27.3% 55.4%	4,815 1,578	7.9% 2.5%		0.9% 0.3%	1,363 443	2.2% 0.7%	57 28	0.1% 0.0%	2,672 677	3.3% 0.9%
51064	61,617	-558	-0.70%	41,079	66.7%			18,163		1,821	3.0%		0.4%		1.0%	72	0.1%	530	0.7%
51065	58,783	-328	-0.41%		85.5%		10.1%	•	9.8%	1,172	2.0%	116	0.1%		3.0%	18	0.0%	297	0.4%
51066	58,449	-680		45,270	77.5%		16.9%			2,293	3.9%		0.3%		2.8%	42	0.1%	902	1.1%
51067 51068	57,154 63,178	-377 -792	-0.47% -0.99%	39,122 51,555	68.5% 81.6%		5.9%	-		5,329	9.3%			11,455	20.0%	55 17	0.1% 0.0%	1,841 849	2.3%
51068	61,528	-/92 -521		22,383	36.4%		12.8% 51.4%	7,754 30,986	12.3% 50.4%	2,312 8,200	3.7% 13.3%	170 314	0.2% 0.4%		3.1% 2.2%	17 70	0.0%		1.1% 6.5%
51070	59,751	-598	-0.75%		36.0%			34,736		2,506			0.4%		1.4%	40	0.1%		1.6%
51071	66,240	-495	-0.62%	28,142	42.5%	34,180	51.6%	33,396	50.4%	1,628	2.5%	179	0.2%	2,509	3.8%	32	0.0%	506	0.6%
51072	60,326	422	0.53%		73.7%			7,479		2,968	4.9%		0.2%	-	10.2%	18	0.0%		1.5%
51073 51074	62,345 61,129	-280 -130	-0.35% -0.16%	46,958 25,304	75.3% 41.4%	-	12.8% 52.9%	7,661 31,776		4,158 1,866	6.7% 3.1%		0.2% 0.2%	-	7.4% 3.5%	28 28	0.0%	1,898 805	2.4% 1.0%
51075	63,665	-723	-0.10%	29,002	45.6%			33,315		1,066	1.7%		0.2%		0.4%	18	0.0%	516	0.7%
51076	58,364	-480	-0.60%	31,344	53.7%	24,998	42.8%	24,593	42.1%	1,447	2.5%	178	0.2%	1,015	1.7%	31	0.0%	431	0.5%
51077	58,834	438	0.55%		47.2%			27,445		2,634			0.3%	-	1.8%	48	0.1%		1.4%
51078 51079	60,316 66,380	27 207	0.03%	45,422 39,913	75.3% 60.1%			10,711 20,649	17.8% 31.1%	2,127 4,858	3.5% 7.3%		0.3% 0.6%		3.8% 3.0%	37 155	0.0%	519 1,483	0.6% 1.8%
31013	00,300	207	0.20%	-3,313	GU.176	41,110	31.07	20,043	31.17	4,035	7.3%	424	U.0%	4,50/	3.0%	133	U.278	.,-03	1.079

51080	60,143	-86	-0.11%	26,160	43.5%	31,588	52.5%	31,021	51.6%	1,616	2.7%	254	0.3%	988	1.6%	73	0.1%	643	0.8%
51081	59,929	681	0.85%	46,145	77.0%	10,247	17.1%	9,827	16.4%	2,736	4.6%	247	0.3%	1,606	2.7%	75	0.1%	833	1.0%
51082	62,865	-506	-0.63%	52,024	82.8%	7,125	11.3%	6,572	10.5%	3,146	5.0%	245	0.3%	1,644	2.6%	78	0.1%	973	1.2%
51083	62,705	764	0.95%	43,306	69.1%	14,282	22.8%	13,702	21.9%	3,440	5.5%	252	0.3%	2,769	4.4%	82	0.1%	1,174	1.5%
51084	58,375	-355	-0.44%	38,245	65.5%	12,905	22.1%	12,315	21.1%	3,880	6.6%	235	0.3%	4,662	8.0%	122	0.2%	1,205	1.5%
51085	62,044	744	0.93%	42,008	67.7%	13,228	21.3%	12,636	20.4%	3,335	5.4%	294	0.4%	4,279	6.9%	102	0.1%	1,171	1.5%
51086	59,286	737	0.92%	34,944	58.9%	5,108	8.6%	4,802	8.1%	12,059	20.3%	219	0.3%	11,609	19.6%	33	0.0%	5,779	7.2%
51087	55,787	-735	-0.92%	32,124	57.6%	5,006	9.0%	4,654	8.3%	7,895	14.2%	147	0.2%	13,563	24.3%	42	0.1%	3,505	4.4%
51088	58,354	181	0.23%	45,104	77.3%	8,479	14.5%	7,991	13.7%	4,545	7.8%	197	0.2%	1,584	2.7%	78	0.1%	2,206	2.8%
51089	62,820	507	0.63%	26,850	42.7%	32,912	52.4%	32,204	51.3%	1,899	3.0%	192	0.2%	1,700	2.7%	47	0.1%	577	0.7%
51090	60,733	-782	-0.98%	27,546	45.4%	27,979	46.1%	27,252	44.9%	3,513	5.8%	273	0.3%	2,736	4.5%	92	0.1%	1,350	1.7%
51091	58,986	-507	-0.63%	39,836	67.5%	15,250	25.9%	14,558	24.7%	2,217	3.8%	229	0.3%	2,108	3.6%	74	0.1%	671	0.8%
51092	62,382	-51	-0.06%	22,724	36.4%	36,972	59.3%	35,936	57.6%	2,373	3.8%	282	0.4%	1,067	1.7%	64	0.1%	766	1.0%
51093	62,281	-778	-0.97%	44,052	70.7%	12,756	20.5%	12,119	19.5%	3,443	5.5%	217	0.3%	3,088	5.0%	101	0.1%	1,169	1.5%
51094	60,264	-742	-0.93%	36,779	61.0%	18,647	30.9%	17,735	29.4%	4,254	7.1%	305	0.4%	2,080	3.5%	117	0.1%	1,485	1.9%
51095	60,645	-343	-0.43%	26,657	44.0%	30,437	50.2%	29,594	48.8%	3,319	5.5%	283	0.4%	1,049	1.7%	61	0.1%	1,545	1.9%
51096	61,067	-793	-0.99%	49,447	81.0%	8,583	14.1%	8,227	13.5%	2,119	3.5%	192	0.2%	1,578	2.6%	57	0.1%	661	0.8%
51097	60,024	-624	-0.78%	51,473	85.8%	6,626	11.0%	6,433	10.7%	969	1.5%	451	0.6%	702	1.2%	20	0.0%	322	0.4%
51098	62,740	-759	-0.95%	50,614	80.7%	10,481	16.7%	10,201	16.3%	1,205	1.9%	322	0.4%	395	0.6%	17	0.0%	385	0.5%
S1099	63,534	322	0.40%	46,161	72.7%	15,464	24.3%	15,150	23.8%	1,916	3.0%	278	0.3%	421	0.7%	22	0.0%	747	0.9%
51100	63,387	670	0.84%	41,814	66.0%	17,524	27.6%	17,066	26.9%	4,344	6.9%	322	0.4%	1,030	1.6%	104	0.1%	1,858	2.3%

EXHIBIT D

Case 3:14-cv-00852-REP-AWA-BMK Document 292-1 Filed 11/02/18 Page 25 of 69 PageID# Plan Name: Plaintiffs' Remedial Plan A 10227

Plan Type:

Date: 11/2/2018 Time: 1:15:03AM

Administrator:

Measures of Compactness

1	1	/2	/2	0	1	8

Sum	N/A	N/A	N/A
Min	0.16	1.23	0.09
Max	0.62	2.95	0.63
Mean	0.37	1.89	0.26
Std. Dev.	0.11	0.31	0.10

			Polsby-
DISTRICT	Reock	Schwartzberg	Popper
51001	0.26	1.69	0.30
51002	0.30	2.17	0.18
51003	0.28	1.84	0.21
51004	0.49	1.97	0.20
51005	0.19	2.29	0.17
51006	0.27	1.82	0.26
51007	0.50	1.81	0.25
51008	0.47	1.83	0.26
51009	0.35	1.83	0.24
51010	0.23	2.16	0.18
51011	0.59	1.80	0.26
51012	0.39	1.95	0.22
51013	0.16	2.53	0.13
51014	0.24	2.34	0.16
51015	0.55	1.52	0.34
51016	0.36	2.11	0.18
51017	0.25	2.95	0.09
51018	0.62	1.92	0.24
51019	0.43	2.09	0.17
51020	0.27	2.28	0.15
51021	0.42	1.74	0.31
51022	0.20	2.59	0.11
51023	0.26	2.25	0.15
51024	0.44	1.78	0.25
51025	0.26	2.14	0.18
51026	0.46	1.57	0.36
51027	0.48	1.75	0.29
51028	0.39	1.82	0.26
51029	0.36	1.98	0.21
51029	0.53	1.49	0.36
51030	0.38	2.11	0.19
51032	0.46	1.64	0.31
51032	0.33	1.89	0.23
51034	0.24	1.91	0.23
51035	0.24	2.11	0.19
51036	0.43	1.66	0.30
51030	0.43	2.24	0.30
51037	0.18	1.44	0.18
51036	0.02	2.16	0.19
51039	0.33	2.10	0.19
J10 4 0	0.20	∠.∠∪	0.17

DISTRICT	Reock	Schwartzberg	Polsby- Popper	
51041	0.36	1.72	0.32	
51041	0.35	2.09	0.32	
51042	0.22	2.10	0.21	
51045	0.43	1.69	0.32	
51045	0.49	1.81	0.26	
51045	0.52	1.28	0.55	
51040	0.32	1.73	0.33	
51047	0.41	2.24	0.16	
51048	0.18	2.35	0.16	
51049	0.24	1.62	0.34	
51050	0.40	2.15	0.18	
51051	0.24	1.92	0.18	
			0.23	
51053	0.46	1.69	0.25	
51054	0.47	1.89		
51055	0.57	1.69	0.28	
51056	0.45	1.85	0.26	
51057	0.45	1.47	0.41	
51058	0.32	2.11	0.19	
51059	0.30	1.98	0.21	
51060	0.38	1.62	0.31	
51061	0.32	2.21	0.17	
51062	0.34	1.93	0.18	
51063	0.59	1.27	0.51	
51064	0.29	2.12	0.17	
51065	0.49	1.57	0.35	
51066	0.30	1.73	0.29	
51067	0.32	1.84	0.25	
51068	0.34	1.74	0.31	
51069	0.46	1.65	0.35	
51070	0.41	2.16	0.19	
51071	0.38	1.76	0.30	
51072	0.29	2.18	0.20	
51073	0.39	1.93	0.24	
51074	0.26	1.96	0.22	
51075	0.41	1.56	0.32	
51076	0.45	1.44	0.47	
51077	0.26	1.99	0.25	
51078	0.44	1.74	0.32	
51079	0.44	1.76	0.27	
51080	0.39	1.85	0.28	
51081	0.37	1.81	0.28	
51082	0.55	1.47	0.45	
51083	0.44	1.72	0.32	
51084	0.41	1.74	0.30	
51085	0.39	1.89	0.27	
51086	0.35	1.98	0.25	
51087	0.22	2.30	0.17	
51088	0.28	2.56	0.13	
51089	0.50	1.47	0.43	
51090	0.48	1.44	0.46	
51090	0.48	1.41	0.49	
51091	0.32	1.74	0.31	
51092	0.32	2.45	0.15	
51093	0.48	1.23	0.63	
51094	0.48	1.69	0.34	
51095	0.20	2.19	0.17	
/ 1 V / V /	0.20	۷.17	U.1/	

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DISTRICT	Reock	Schwartzberg	Polsby- Popper	
51097	0.43	1.73	0.21	
51098	0.28	1.78	0.26	
51099	0.27	1.97	0.21	
51100	0.29	1.51	0.39	

EXHIBIT E

Plan Name: Plaintiffs' Remedial Plan A

Plan Type: Administrator:

Political Subdivisions Split Between Districts

Friday November 2, 2018 12:16 AM

Number of subdivisions not split:

County 83 Voting District 2,291

Number of subdivisions split into more than one district:

County 51 Voting District 82

Number of subdivision splits which affect *no* population:

County 2
Voting District 3

Split Counts

County

Cases where an area is split among 2 Districts: 24
Cases where an area is split among 3 Districts: 14
Cases where an area is split among 4 Districts: 5
Cases where an area is split among 5 Districts: 1
Cases where an area is split among 6 Districts: 2
Cases where an area is split among 7 Districts: 3
Cases where an area is split among 8 Districts: 1
Cases where an area is split among 17 Districts: 1

Voting District

Cases where an area is split among 2 Districts: 80 Cases where an area is split among 3 Districts: 2

County	Voting District	District	Population
Split Counties:			
Albemarle VA		51025	21,420
Albemarle VA		51057	37,303
Albemarle VA		51058	30,929
Albemarle VA		51059	9,318
Alexandria City VA		51045	59,633
Alexandria City VA		51046	80,333
Amherst VA		51023	10,678
Amherst VA		51024	21,675
Arlington VA		51045	14,388

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County Voting District Procession Split Counties (continued): Arlington VA 51047 Arlington VA 51048 Arlington VA 51049 Augusta VA 51020 Augusta VA 51024 Augusta VA 51025 Bedford VA 51019 Bedford VA 51022 Bedford VA 51023 Botetourt VA 51017 Botetourt VA 51019 Campbell VA 51022 Campbell VA 51059 Campbell VA 51054 Caroline VA 51055 Caroline VA 51099 Chesapeake City VA 51021	80,757 55,008 57,474 24,485 17,273 31,992 22,948 28,780 16,948 4,449 28,699 17,154 30,664 7,024 2,484 19,742
Arlington VA 51047 Arlington VA 51048 Arlington VA 51049 Augusta VA 51020 Augusta VA 51024 Augusta VA 51025 Bedford VA 51019 Bedford VA 51022 Bedford VA 51023 Botetourt VA 51017 Botetourt VA 51019 Campbell VA 51022 Campbell VA 51059 Campbell VA 51054 Caroline VA 51055 Caroline VA 51055 Caroline VA 51099	55,008 57,474 24,485 17,273 31,992 22,948 28,780 16,948 4,449 28,699 17,154 30,664 7,024 2,484
Arlington VA 51048 Arlington VA 51049 Augusta VA 51020 Augusta VA 51024 Augusta VA 51025 Bedford VA 51019 Bedford VA 51022 Bedford VA 51023 Botetourt VA 51017 Botetourt VA 51019 Campbell VA 51022 Campbell VA 51059 Campbell VA 51054 Caroline VA 51055 Caroline VA 51099	55,008 57,474 24,485 17,273 31,992 22,948 28,780 16,948 4,449 28,699 17,154 30,664 7,024 2,484
Arlington VA 51048 Arlington VA 51049 Augusta VA 51020 Augusta VA 51024 Augusta VA 51025 Bedford VA 51019 Bedford VA 51022 Bedford VA 51023 Botetourt VA 51017 Botetourt VA 51019 Campbell VA 51022 Campbell VA 51059 Campbell VA 51054 Caroline VA 51055 Caroline VA 51099	55,008 57,474 24,485 17,273 31,992 22,948 28,780 16,948 4,449 28,699 17,154 30,664 7,024 2,484
Arlington VA 51049 Augusta VA 51020 Augusta VA 51024 Augusta VA 51025 Bedford VA 51019 Bedford VA 51022 Bedford VA 51023 Botetourt VA 51017 Botetourt VA 51019 Campbell VA 51022 Campbell VA 51059 Campbell VA 51054 Caroline VA 51055 Caroline VA 51099	24,485 17,273 31,992 22,948 28,780 16,948 4,449 28,699 17,154 30,664 7,024 2,484
Augusta VA 51020 Augusta VA 51024 Augusta VA 51025 Bedford VA 51019 Bedford VA 51022 Bedford VA 51023 Botetourt VA 51017 Botetourt VA 51019 Campbell VA 51022 Campbell VA 51059 Caroline VA 51054 Caroline VA 51055 Caroline VA 51099	24,485 17,273 31,992 22,948 28,780 16,948 4,449 28,699 17,154 30,664 7,024 2,484
Augusta VA 51024 Augusta VA 51025 Bedford VA 51019 Bedford VA 51022 Bedford VA 51023 Botetourt VA 51017 Botetourt VA 51019 Campbell VA 51022 Campbell VA 51059 Caroline VA 51054 Caroline VA 51055 Caroline VA 51099	17,273 31,992 22,948 28,780 16,948 4,449 28,699 17,154 30,664 7,024 2,484
Augusta VA 51025 Bedford VA 51019 Bedford VA 51022 Bedford VA 51023 Botetourt VA 51017 Botetourt VA 51019 Campbell VA 51022 Campbell VA 51059 Caroline VA 51054 Caroline VA 51055 Caroline VA 51099	31,992 22,948 28,780 16,948 4,449 28,699 17,154 30,664 7,024 2,484
Bedford VA 51022 Bedford VA 51023 Botetourt VA 51017 Botetourt VA 51019 Campbell VA 51022 Campbell VA 51059 Campbell VA 51060 Caroline VA 51054 Caroline VA 51055 Caroline VA 51099	28,780 16,948 4,449 28,699 17,154 30,664 7,024 2,484
Bedford VA 51023 Botetourt VA 51017 Botetourt VA 51019 Campbell VA 51022 Campbell VA 51059 Campbell VA 51060 Caroline VA 51054 Caroline VA 51055 Caroline VA 51099	28,780 16,948 4,449 28,699 17,154 30,664 7,024 2,484
Botetourt VA 51017 Botetourt VA 51019 Campbell VA 51022 Campbell VA 51059 Campbell VA 51060 Caroline VA 51054 Caroline VA 51055 Caroline VA 51099	16,948 4,449 28,699 17,154 30,664 7,024 2,484
Botetourt VA 51019 Campbell VA 51022 Campbell VA 51059 Campbell VA 51060 Caroline VA 51054 Caroline VA 51055 Caroline VA 51099	28,699 17,154 30,664 7,024 2,484
Campbell VA 51022 Campbell VA 51059 Campbell VA 51060 Caroline VA 51054 Caroline VA 51055 Caroline VA 51099	28,699 17,154 30,664 7,024 2,484
Campbell VA 51059 Campbell VA 51060 Caroline VA 51054 Caroline VA 51055 Caroline VA 51099	17,154 30,664 7,024 2,484
Campbell VA 51059 Campbell VA 51060 Caroline VA 51054 Caroline VA 51055 Caroline VA 51099	30,664 7,024 2,484
Campbell VA 51060 Caroline VA 51054 Caroline VA 51055 Caroline VA 51099	7,024 2,484
Caroline VA Caroline VA Caroline VA 51055 Caroline VA 51099	2,484
Caroline VA 51055 Caroline VA 51099	
Caroline VA 51099	- / -
	6,319
	5,030
Chesapeake City VA 51076	2,057
Chesapeake City VA 51077	80,448
Chesapeake City VA 51078	80,037
Chesapeake City VA 51080	21,946
Chesapeake City VA 51081	32,691
Chesterfield VA 51027	79,469
Chesterfield VA 51062	40,229
Chesterfield VA 51063	13,302
Chesterfield VA 51065	51,636
Chesterfield VA 51066	61,919
Chesterfield VA 51068	44,427
Chesterfield VA 51069	25,254
Clarke VA 51010	4,309
Clarke VA 51033	9,725
Culpeper VA 51018	12,895
Culpeper VA 51030	33,794
Fairfax VA 51034	53,301
Fairfax VA 51035	80,213
Fairfax VA 51036	79,746
Fairfax VA 51037	57,690
Fairfax VA 51038	80,758
Fairfax VA 51039	80,710
Fairfax VA 51040	66,026
Fairfax VA 51041	80,792
Fairfax VA 51042	79,964
Fairfax VA 51043	80,750
Fairfax VA 51044	80,796
Fairfax VA 51045	6,219
Fairfax VA 51048	24,484
Fairfax VA 51049	23,135
Fairfax VA 51053	67,717
Fairfax VA 51067	70,636

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Plan Name: I Plan Type:	Plaintiffs' Remedial Plan A Administrator: User:		
County	Voting District	District	Population
Split Counties (continued):		
Fairfax VA		51086	68,789
Fauquier VA		51018	40,915
Fauquier VA		51031	15,101
Fauquier VA		51088	9,187
Fluvanna VA		51056	7,231
Fluvanna VA		51058	18,460
Franklin VA		51009	46,650
Franklin VA		51022	9,509
Frederick VA		51010	13,649
Frederick VA		51029	43,969
Frederick VA		51033	20,687
Fredericksburg C	City VA	51028	8,950
Fredericksburg C		51088	15,336
Hampton City V		51091	50,673
Hampton City V		51092	79,959
Hampton City V		51095	6,804
Hanover VA		51055	50,481
Hanover VA		51097	49,382
Henrico VA		51056	13,165
Henrico VA		51062	9,989
Henrico VA		51070	43,739
Henrico VA		51072	80,432
Henrico VA		51073	79,730
Henrico VA		51074	79,880
Henry VA		51009	15,434
Henry VA		51014	15,368
Henry VA		51016	23,349
James City VA		51093	20,694
James City VA		51096	46,315
King William VA	A.	51097	11,575
King William VA	L	51098	4,360
Loudoun VA		51010	62,659
Loudoun VA		51032	80,268
Loudoun VA		51033	50,138
Loudoun VA		51034	27,421
Loudoun VA		51067	8,997
Loudoun VA		51086	11,958
Loudoun VA		51087	70,870
Lunenburg VA		51061	8,470
Lunenburg VA		51075	4,444
Lynchburg City \		51022	23,864
Lynchburg City		51023	51,704
Montgomery VA		51007	35,026
Montgomery VA		51008	17,599
Montgomery VA		51012	41,767
Nelson VA		51020	7,776
Nelson VA		51059	7,244
Newport News C		51093	28,588
Newport News C	·	51094	79,268
Newport News C	ity VA	51095	72,863

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Plan Name: Plan Type:	Plaintiffs' Remedial Plan A Administrator: User:		
County	Voting District	District	Population
Split Counties	(continued):		
Norfolk City VA	4	51079	42,660
Norfolk City VA		51083	5,271
Norfolk City VA		51089	80,517
Norfolk City VA		51090	79,228
Norfolk City VA		51100	35,127
Pittsylvania VA		51014	20,984
Pittsylvania VA		51016	42,522
Portsmouth City		51079	37,557
Portsmouth City	y VA	51080	57,978
Prince George V	VA	51062	0
Prince George V	VA	51063	5,713
Prince George V	VA	51064	30,012
Prince William	VA	51002	45,961
Prince William	VA	51013	66,306
Prince William	VA	51031	64,109
Prince William	VA	51040	14,703
Prince William	VA	51050	42,856
Prince William	VA	51051	80,372
Prince William	VA	51052	79,290
Prince William	VA	51087	8,405
Pulaski VA		51007	29,841
Pulaski VA		51012	5,031
Richmond City	VA	51068	34,791
Richmond City	VA	51069	54,235
Richmond City	VA	51070	35,673
Richmond City	VA	51071	79,515
Roanoke City V.	'A	51011	80,132
Roanoke City V	'A	51017	16,900
Roanoke VA		51008	33,094
Roanoke VA		51017	59,282
Rockingham VA		51015	4,966
Rockingham VA		51025	26,599
Rockingham VA	1	51026	31,774
Rockingham VA	1	51058	12,975
Russell VA		51003	4,583
Russell VA		51004	24,314
Smyth VA		51005	11,877
Smyth VA		51006	20,331
Spotsylvania VA		51054	77,671
Spotsylvania VA		51055	9,355
Spotsylvania VA		51056	4,780
Spotsylvania VA	A	51088	30,591
Stafford VA		51002	33,530
Stafford VA		51028	70,354
Stafford VA		51088	25,077
Suffolk City VA		51064	7,112
Suffolk City VA		51076	77,473
Virginia Beach		51021	74,578
Virginia Beach		51081	48,000
Virginia Beach	City VA	51082	79,504

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Plan Name: P Plan Type:	laintiffs' Remedial Plan A	Administrator: User:		
County	Voting District		District	Population
Split Counties (c	continued):			
Virginia Beach C			51083	75,503
Virginia Beach C	-		51084	79,655
Virginia Beach C	-		51085	80,754
Virginia Beach C			51100	0
Warren VA			51015	9,629
Warren VA			51018	18,267
Warren VA			51029	9,679
Washington VA			51004	26,563
Washington VA			51005	28,313
Wise VA			51001	27,786
Wise VA			51004	13,666
York VA			51091	16,680
York VA			51093	15,882
York VA			51096	32,902
Split VTDs :				
Albemarle VA	East Ivy		51025	1,145
Albemarle VA	East Ivy		51057	2,444
Albemarle VA	Free Bridge		51057	4,095
Albemarle VA	Free Bridge		51058	460
Amherst VA	Amelon		51023	1,337
Amherst VA	Amelon		51024	3,458
Amherst VA	Elon		51023	834
Amherst VA	Elon		51024	2,764
Arlington VA	Jefferson		51047	1,410
Arlington VA	Jefferson		51049	3,019
Arlington VA	Oakridge		51045	1,705
Arlington VA	Oakridge		51049	3,511
Augusta VA	Fishersville		51020	707
Augusta VA	Fishersville		51025	4,104
Augusta VA	White Hill		51020	1,157
Augusta VA	White Hill		51024	2,331
Bedford VA	Liberty High School		51019	838
Bedford VA	Liberty High School		51023	2,152
Bedford VA	Thaxton Elem School		51019	765
Bedford VA	Thaxton Elem School		51023	1,843
Chesapeake City			51078	546
Chesapeake City			51081	2,760
Chesterfield VA	Bailey Bridge		51027	4,061
Chesterfield VA	Bailey Bridge		51066	1,849
Chesterfield VA	Enon		51062	3,961
Chesterfield VA	Enon		51066	932
Chesterfield VA	Evergreen		51027	4,161
Chesterfield VA	Evergreen		51065	2,713
Chesterfield VA	Evergreen		51068	358
Clarke VA	Millwood		51010	1,693
Clarke VA	Millwood		51033	78
Fairfax VA	Baileys		51038	4,068
Fairfax VA	Baileys		51049	3,004
Fairfax VA	Belle Haven		51044	3,232

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Plan Name: Plaint Plan Type:	iffs' Remedial Plan A	Administrator: User:	
County	Voting District	District	Population
Split VTDs (continue	ed):		
Fairfax VA	Belle Haven	51045	179
Fairfax VA	Belvoir	51043	3,167
Fairfax VA	Belvoir	51044	2,216
Fairfax VA	Camelot	51039	1,381
Fairfax VA	Camelot	51053	407
Fairfax VA	Flint Hill	51035	2,035
Fairfax VA	Flint Hill	51036	3,897
Fairfax VA	Franklin	51067	1,228
Fairfax VA	Franklin	51086	3,530
Fairfax VA	Hayfield	51043	658
Fairfax VA	Hayfield	51044	3,178
Fairfax VA	Huntington	51043	5,464
Fairfax VA	Huntington	51045	320
Fairfax VA	Kinross	51067	3,186
Fairfax VA	Kinross	51086	3,128
Fairfax VA	Lake Braddock	51039	388
Fairfax VA	Lake Braddock	51041	6,417
Fairfax VA	Lane	51039	3,307
Fairfax VA	Lane	51043	2,015
Fairfax VA	Lees Corner West	51067	3,177
Fairfax VA	Lees Corner West	51086	2,463
Fairfax VA	London Towne West	51037	4,019
Fairfax VA	London Towne West	51040	1,825
Fairfax VA	Lorton	51042	0
Fairfax VA	Lorton	51043	4,353
Fairfax VA	Mosby	51035	2,906
Fairfax VA	Mosby	51037	6,928
Fairfax VA	Pohick	51041	3,303
Fairfax VA	Pohick	51042	2,489
Fairfax VA	Salona	51034	1,236
Fairfax VA	Salona	51048	2,387
Fairfax VA	Stone	51037	3,052
Fairfax VA	Stone	51067	2,902
Fairfax VA	Vale	51036	907
Fairfax VA	Vale	51067	3,094
Fairfax VA	Weyanoke	51038	5,130
Fairfax VA	Weyanoke	51039	1,022
Fairfax VA	Willow Springs	51037	3,327
Fairfax VA	Willow Springs	51040	3,764
Fairfax VA	Woodson	51037	4,956
Fairfax VA	Woodson	51041	2,358
Fairfax VA	Woodyard	51040	1,101
Fairfax VA	Woodyard	51040	1,646
Frederick VA	Parkins Mill	51010	6,942
Frederick VA	Parkins Mill	51029	1,263
Fredericksburg City V		51029	698
Fredericksburg City V		51028	1,523
Hampton City VA	Bethel	51088	4,800
Hampton City VA	Bethel	51095	548
Transport City VII	Domei	31073	340

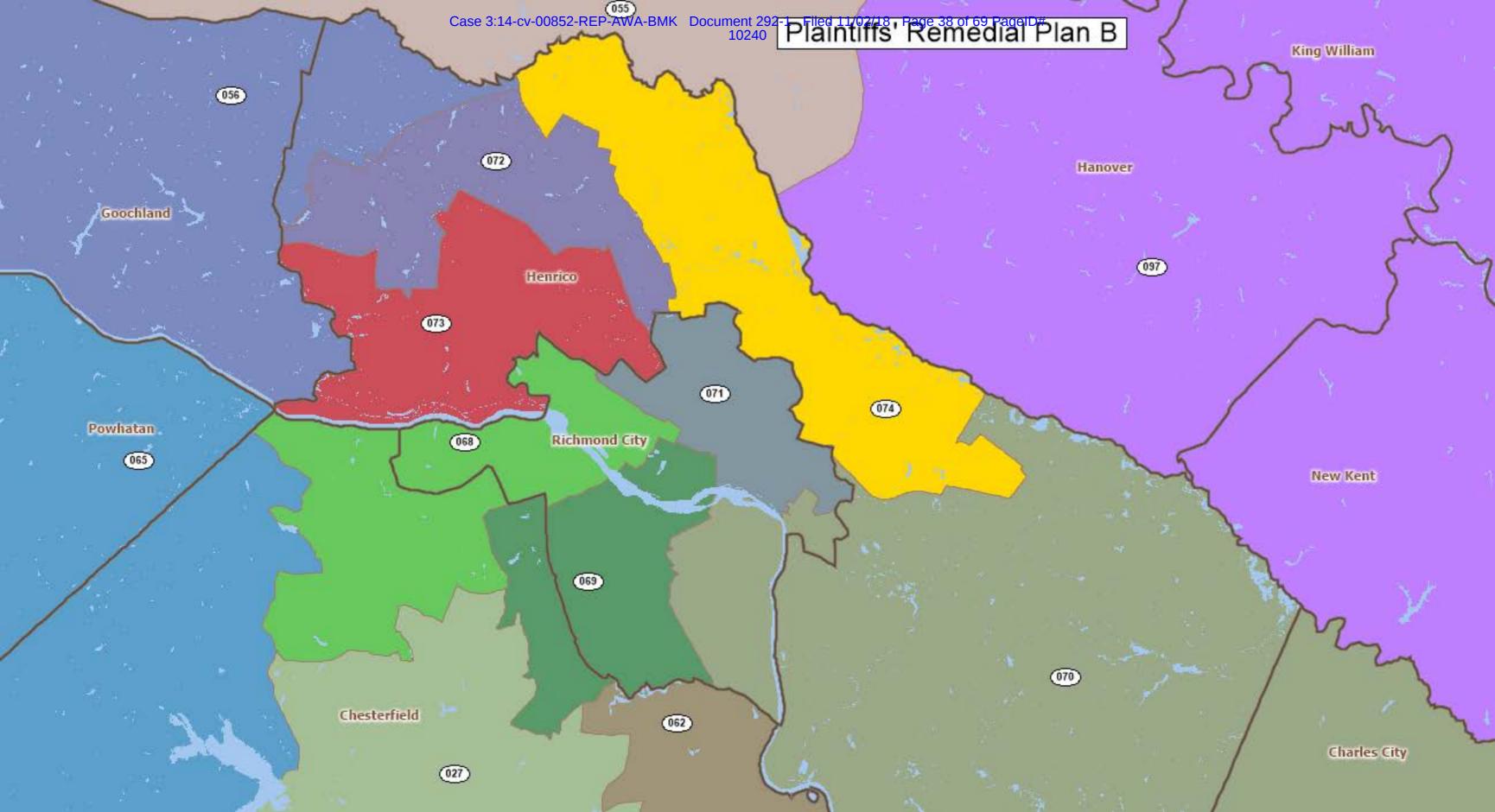
Case 3:14-cv-00852-REP-AWA-BMK Document 292-1 Filed 11/02/18 Page 35 of 69 PageID# 10237

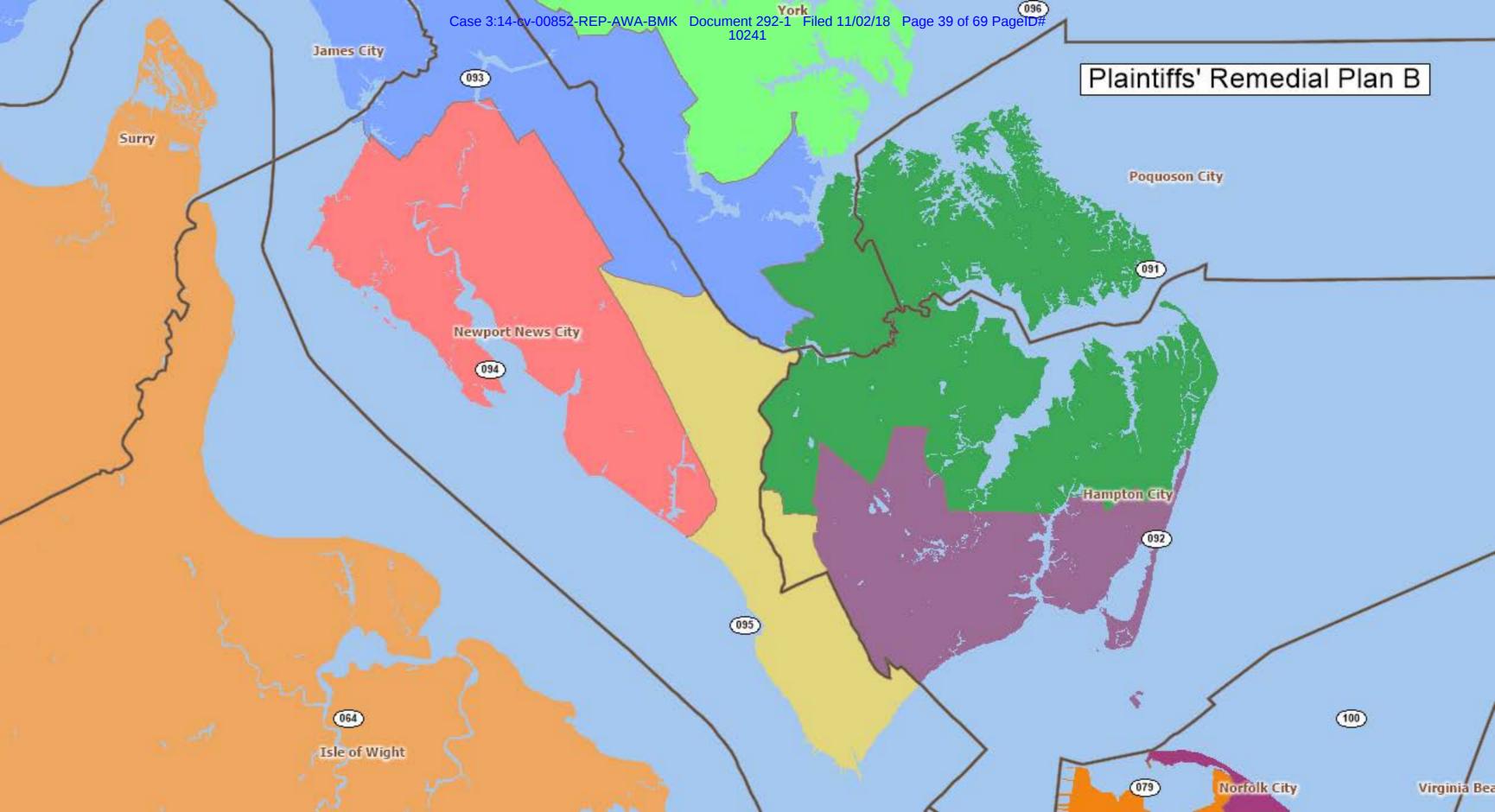
Plan Name: Plaintiff Plan Type:	s' Remedial Plan A	Administrator: User:		
County	Voting District		District	Population
Split VTDs (continued)):			
Henrico VA	Pleasants		51070	4,243
Henrico VA	Pleasants		51074	1,046
Henry VA	Axton		51014	353
Henry VA	Axton		51016	1,782
King William VA	Courthouse		51097	2,129
King William VA	Courthouse		51098	143
Loudoun VA	Belmont Ridge		51010	3,034
Loudoun VA	Belmont Ridge		51032	4,058
Loudoun VA	Countryside		51032	948
Loudoun VA	Countryside		51087	1,928
Loudoun VA	Dulles South		51067	6,329
Loudoun VA	Dulles South		51087	11
Loudoun VA	Mill Run		51032	3,722
Loudoun VA	Mill Run		51087	1,180
Loudoun VA	Park View		51086	2,336
Loudoun VA	Park View		51087	2,766
Loudoun VA	Philomont		51010	1,402
Loudoun VA	Philomont		51033	1,105
Loudoun VA	Pinebrook		51010	2,399
Loudoun VA	Pinebrook		51087	2,325
Lunenburg VA	Brown's Store		51061	1,040
Lunenburg VA	Brown's Store		51075	265
Lunenburg VA	Peoples Community Center		51061	725
Lunenburg VA	Peoples Community Center		51075	207
Lunenburg VA	Rosebud		51061	557
Lunenburg VA	Rosebud		51075	747
Lunenburg VA	Victoria Public Library		51061	1,086
Lunenburg VA	Victoria Public Library		51075	1,336
Montgomery VA	E-1		51007	10,740
Montgomery VA	E-1		51012	654
Newport News City VA			51093	3,023
Newport News City VA			51094	6,789
Newport News City VA			51093	2,317
Newport News City VA			51094	2,340
Norfolk City VA	Lafayette-Winona		51089	1,026
Norfolk City VA	Lafayette-Winona		51090	2,339
Portsmouth City VA	Nine		51079	2,752
Portsmouth City VA	Nine		51080	402
Prince George VA	Courts Bldg		51062	0
Prince George VA	Courts Bldg		51064	3,810
Prince George VA	Templeton		51063	1,044
Prince George VA	Templeton		51064	3,579
Prince William VA	Alvey		51040	2,244
Prince William VA	Alvey		51087	4,913
Prince William VA	Battlefield		51013	80
Prince William VA	Battlefield		51040	5,599
Prince William VA	Benton		51031	2,848
Prince William VA	Benton		51051	1,805
Prince William VA	Godwin		51031	3,710

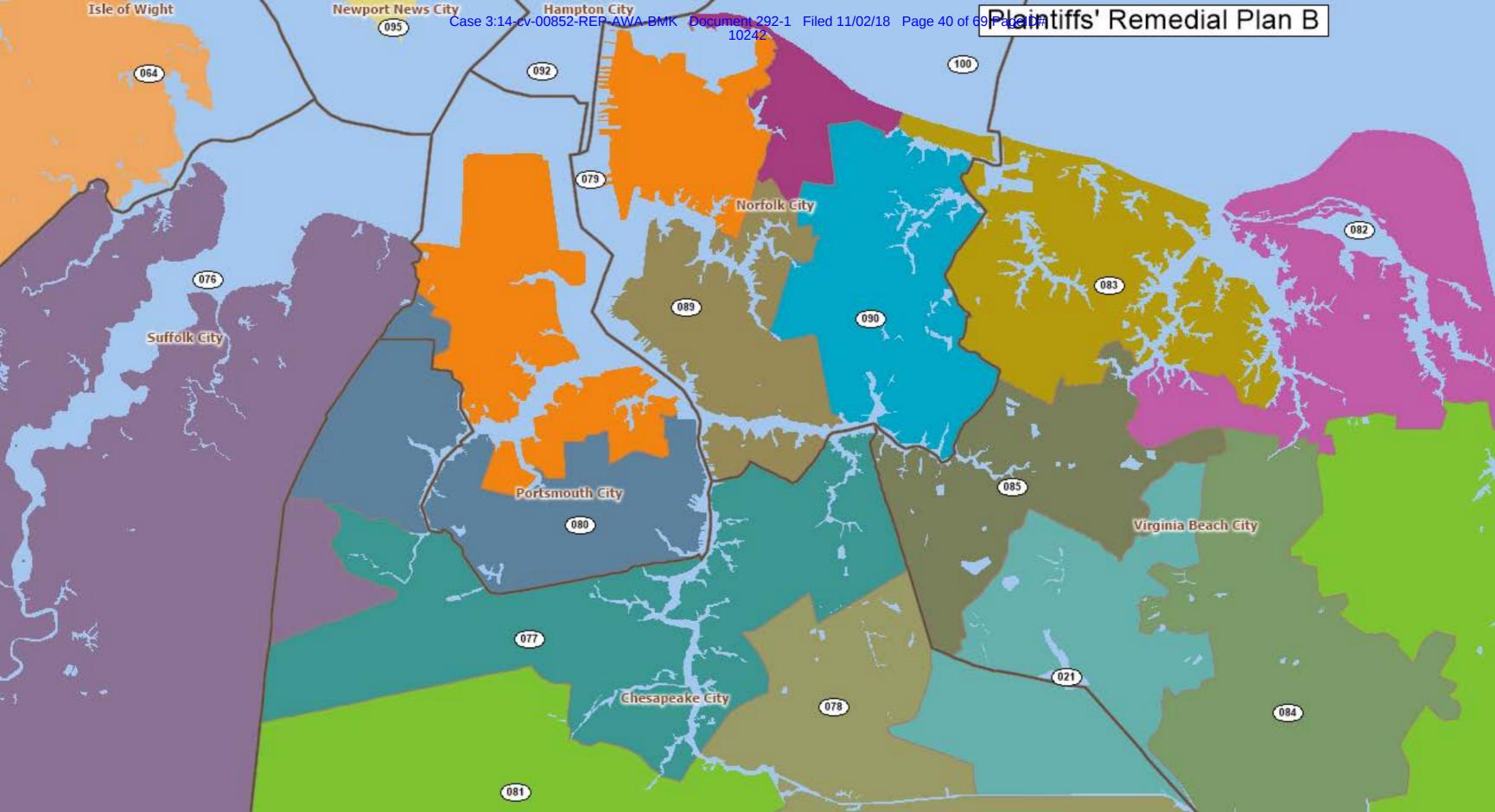
Case 3:14-cv-00852-REP-AWA-BMK Document 292-1 Filed 11/02/18 Page 36 of 69 PageID# 10238

Plan Name: Pl Plan Type:	aintiffs' Remedial Plan A	Administrator: User:		
County	Voting District		District	Population
Split VTDs (cont	inued):			
Prince William VA	A Godwin		51052	4,449
Prince William VA	A Henderson		51031	3,800
Prince William VA	A Henderson		51052	2,700
Prince William VA	A Minnieville		51031	456
Prince William VA	A Minnieville		51052	4,819
Prince William VA	A Stonewall		51013	5,472
Prince William VA	A Stonewall		51050	1,141
Richmond City VA	A 707		51070	86
Richmond City VA	A 707		51071	5,576
Roanoke VA	Penn Forest		51008	1,911
Roanoke VA	Penn Forest		51017	417
Rockingham VA	Plains		51015	1,664
Rockingham VA	Plains		51026	1,998
Russell VA	Honaker		51003	1,463
Russell VA	Honaker		51004	2,591
Spotsylvania VA	Brokenburg		51054	1,530
Spotsylvania VA	Brokenburg		51055	1,384
Spotsylvania VA	Brokenburg		51056	1,562
Stafford VA	Hampton		51028	4,244
Stafford VA	Hampton		51088	1,168
Stafford VA	Whitson		51002	1,537
Stafford VA	Whitson		51088	3,512
Virginia Beach Ci	ty VA Aragona		51083	3,841
Virginia Beach Ci	ty VA Aragona		51085	3,439
Virginia Beach Ci	ty VA Chesapeake Beach		51083	8,310
Virginia Beach Ci	ty VA Chesapeake Beach		51100	0
Virginia Beach Ci	ty VA London Bridge		51082	4,803
Virginia Beach Ci	ty VA London Bridge		51084	763
Wise VA	East Pound		51001	1,168
Wise VA	East Pound		51004	1,416
York VA	Coventry		51091	3,668
York VA	Coventry		51093	5,134
York VA	Edgehill		51093	2,346
York VA	Edgehill		51096	2,989

EXHIBIT F







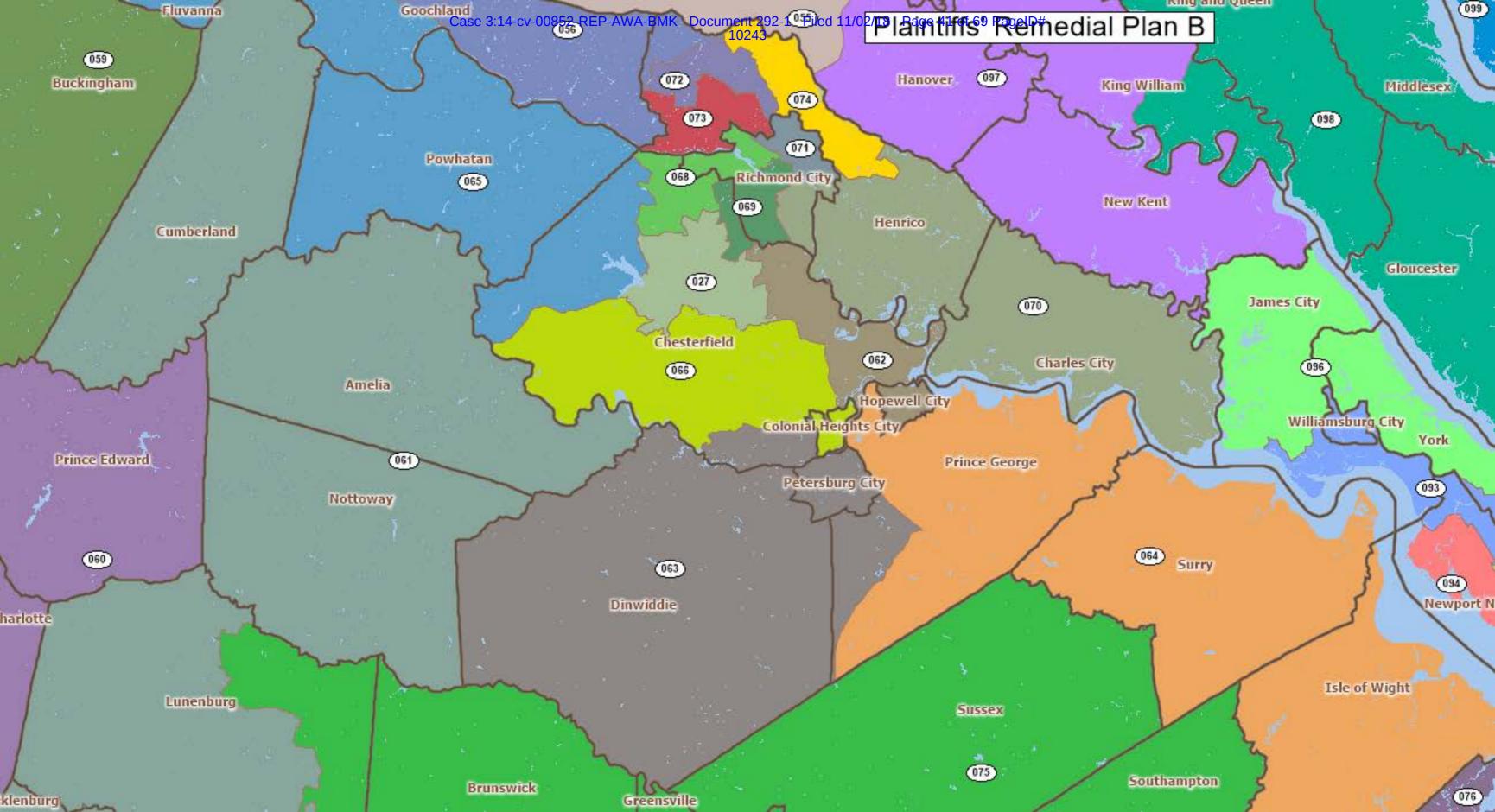
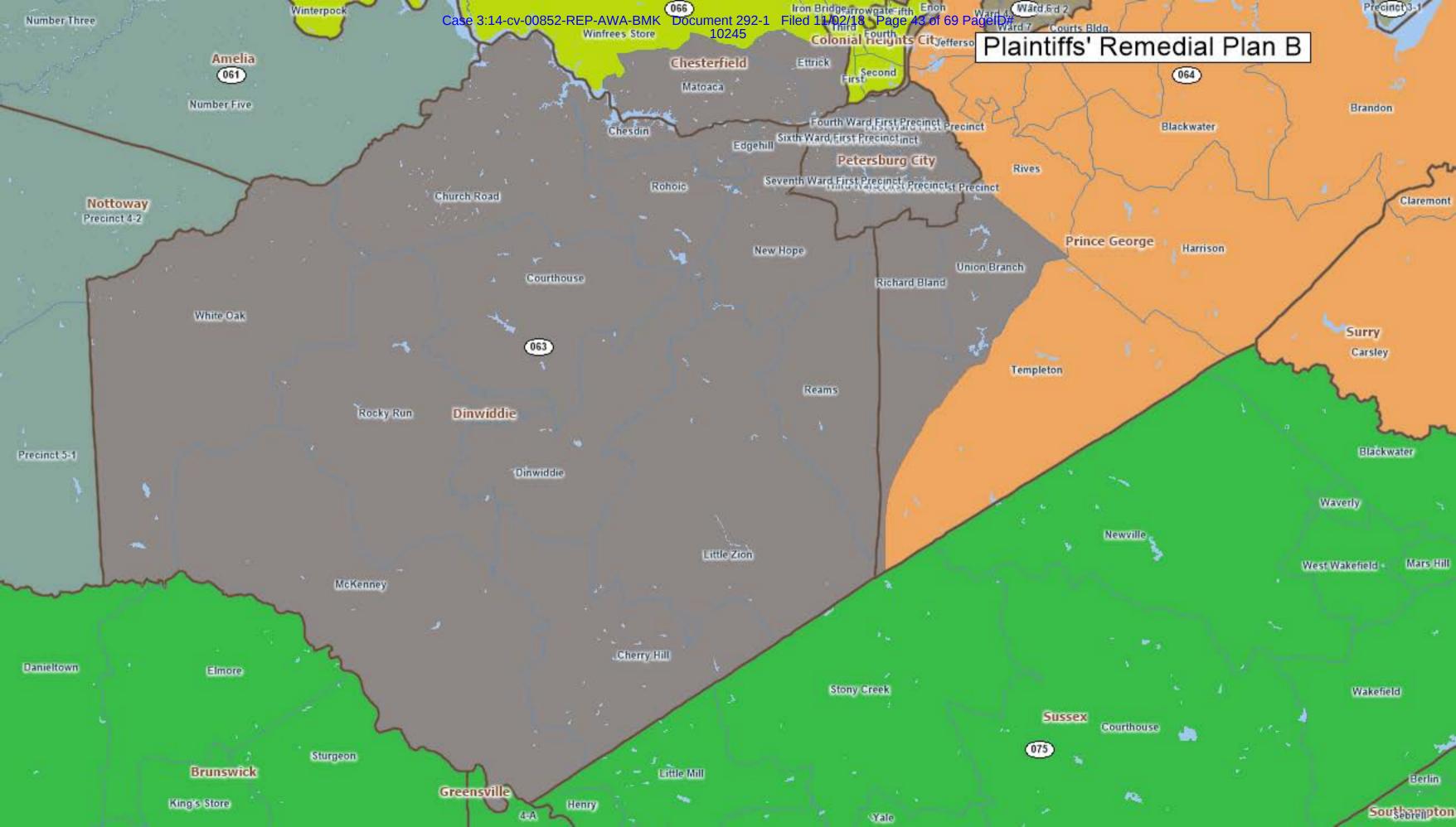
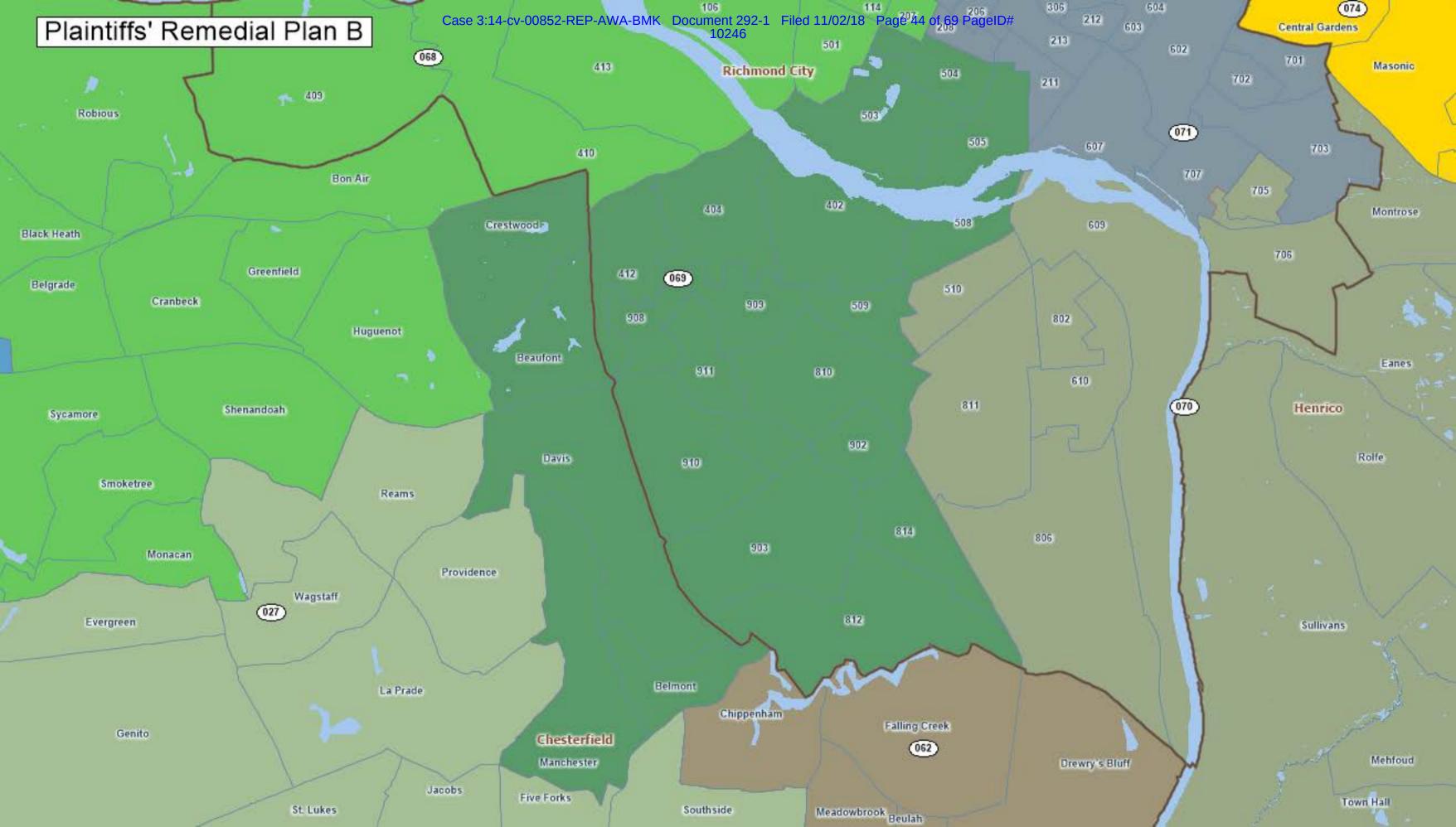
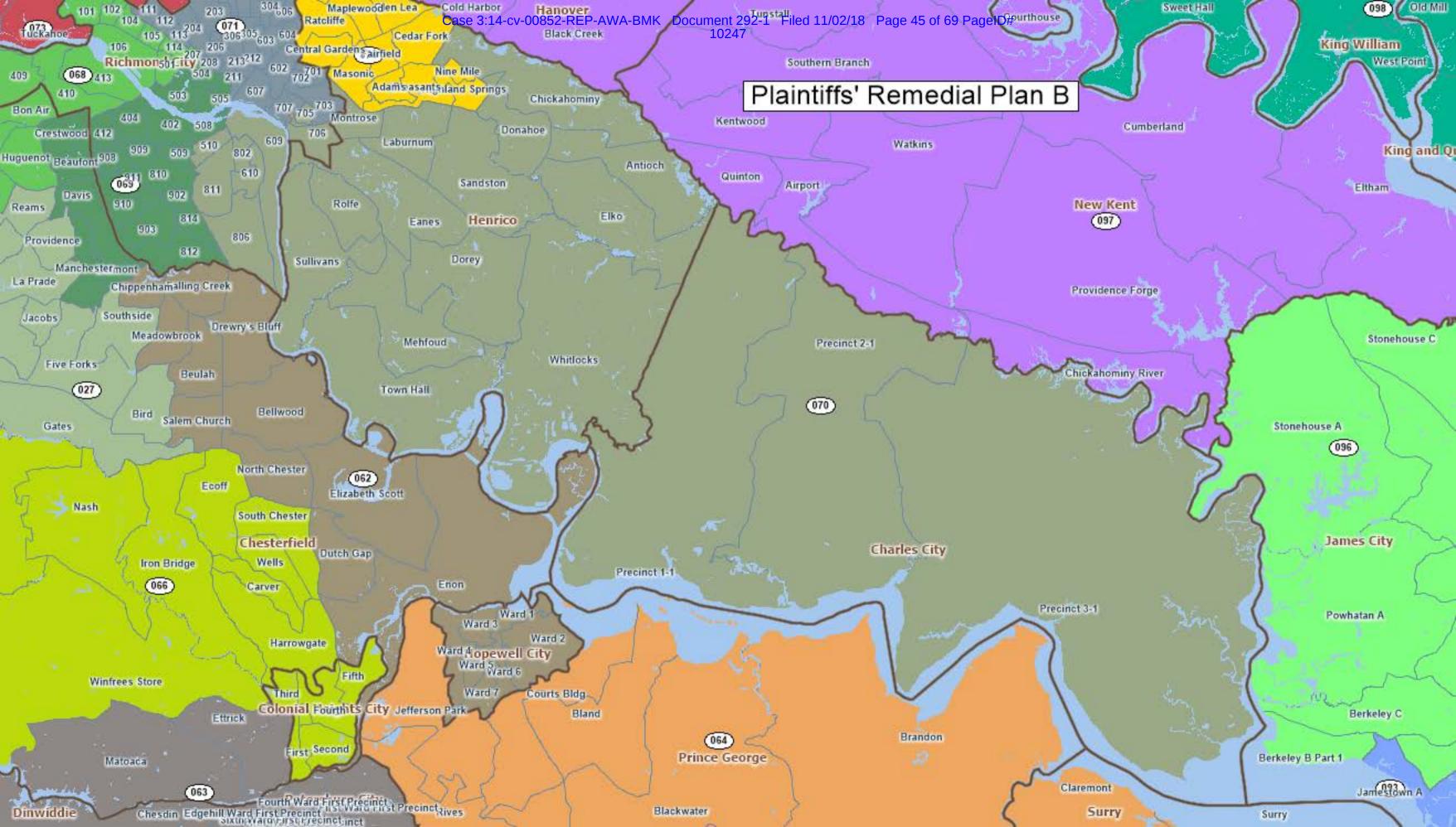
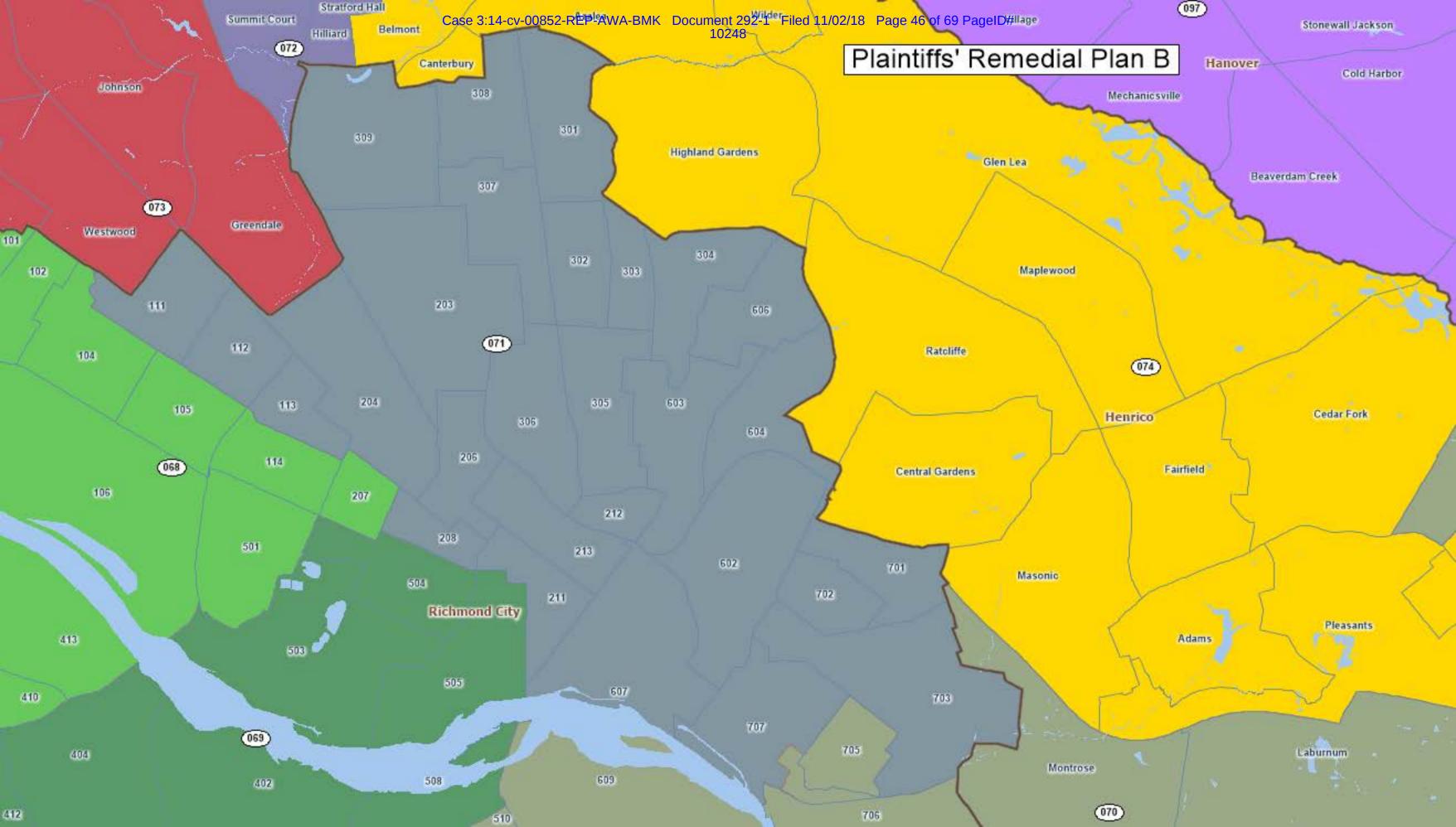


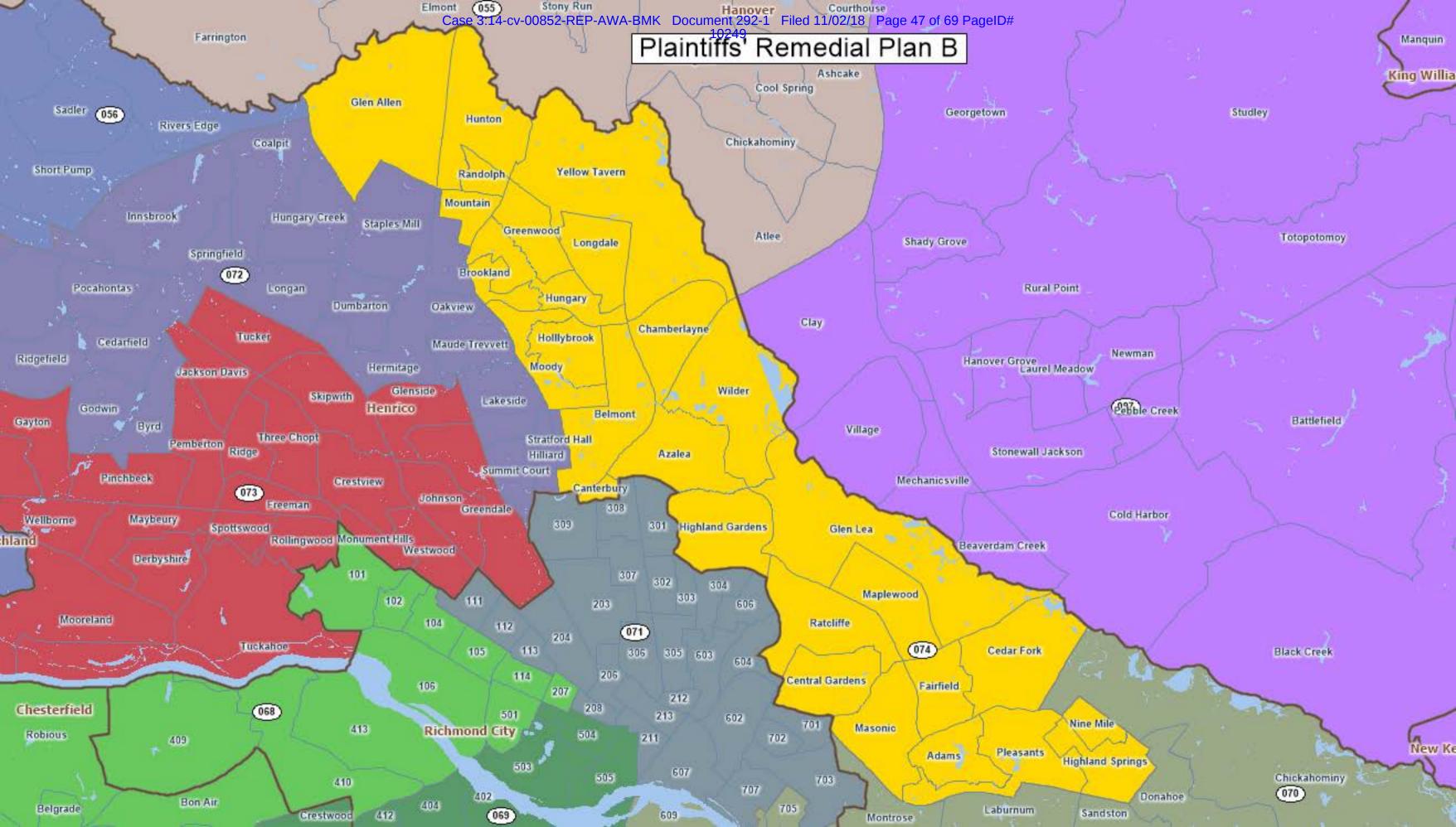
EXHIBIT G

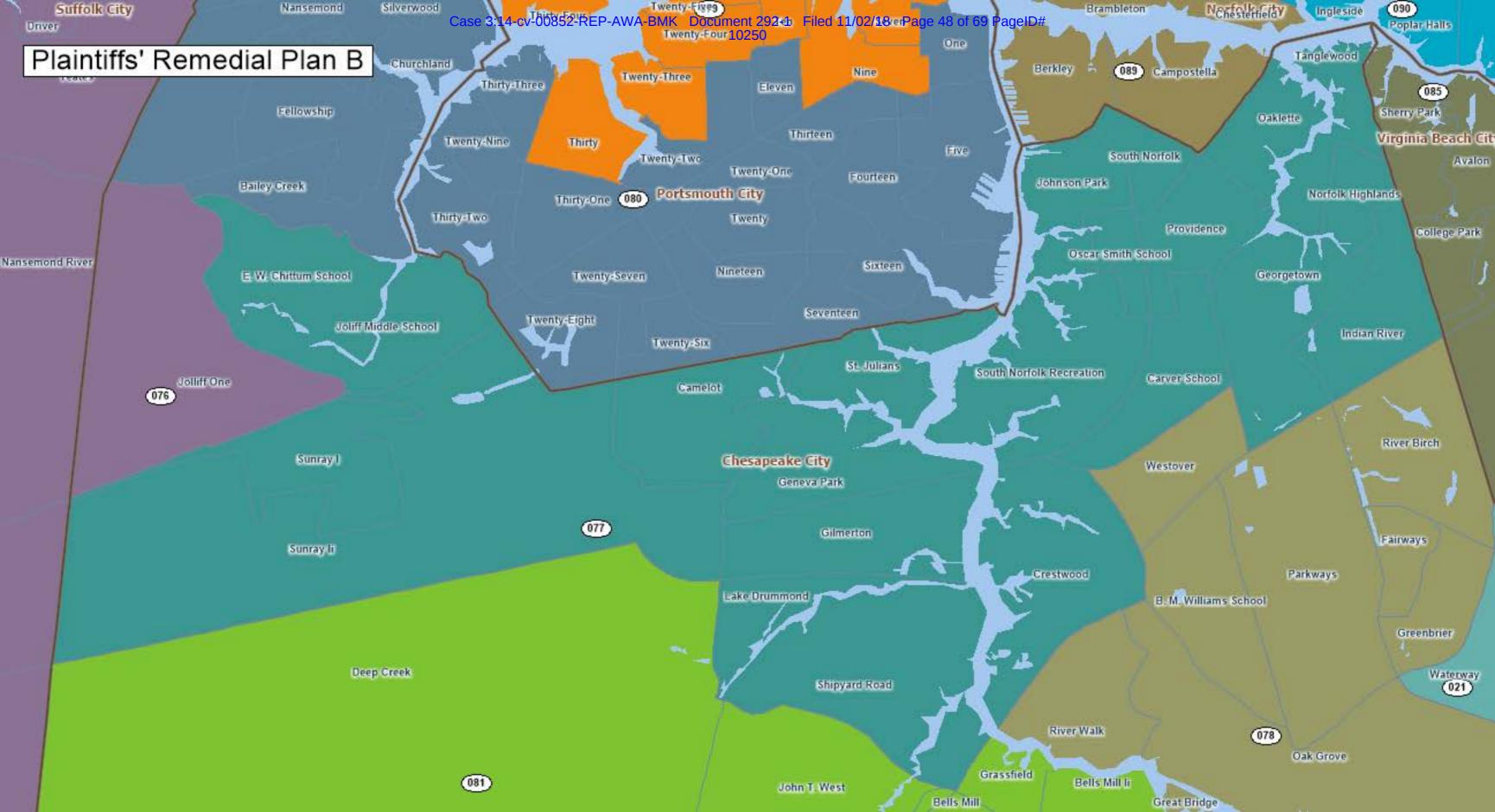


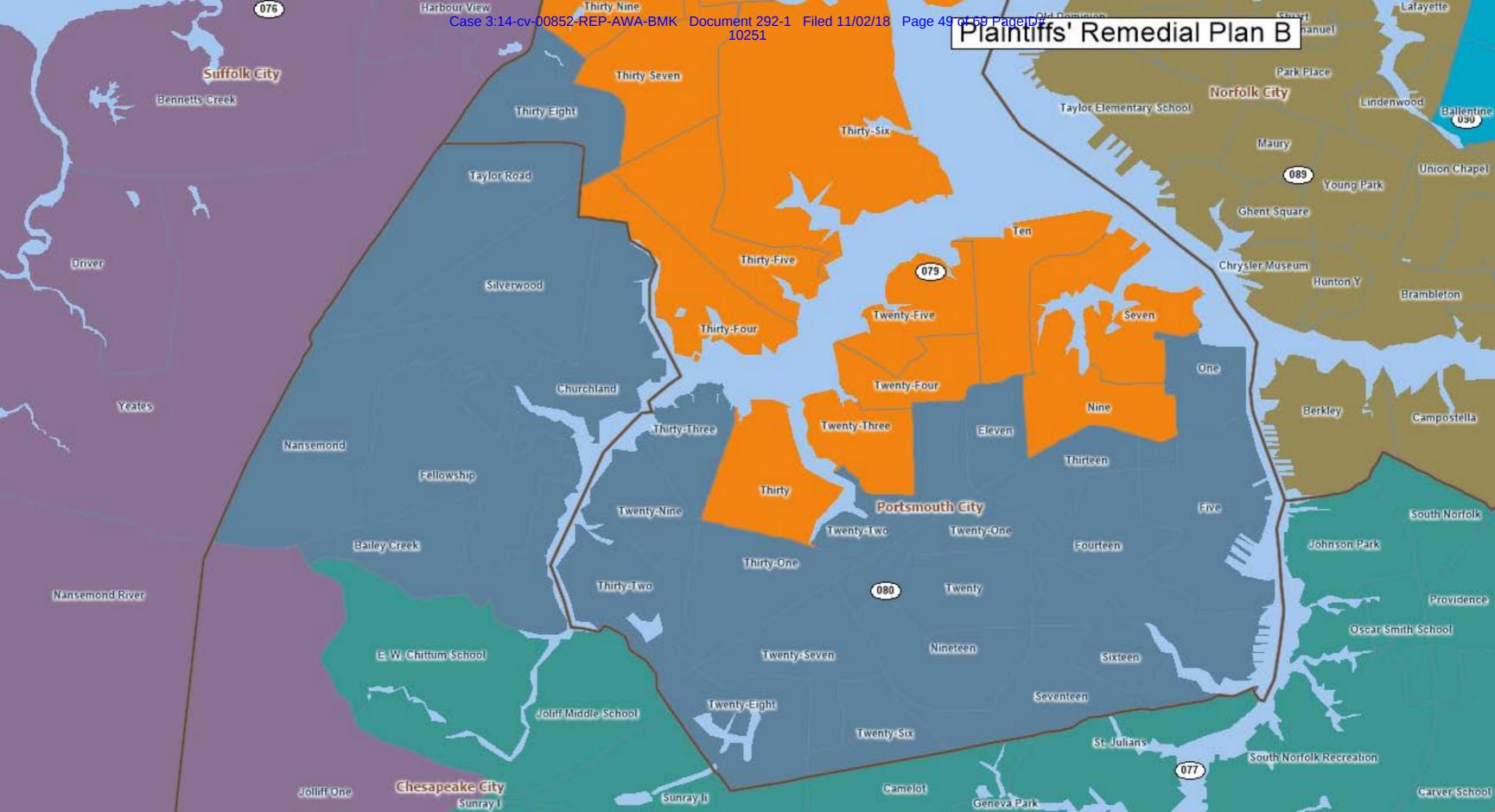


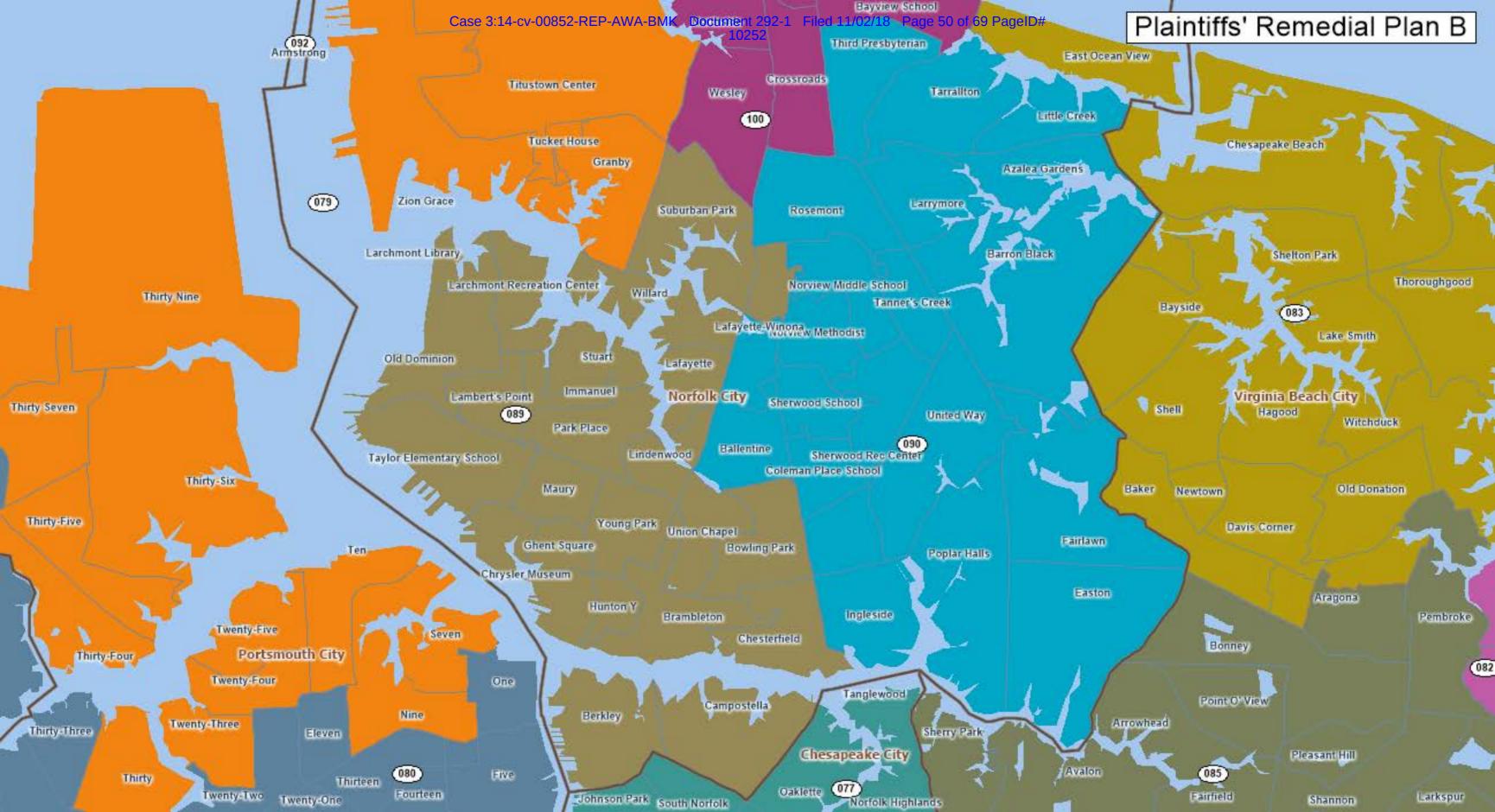












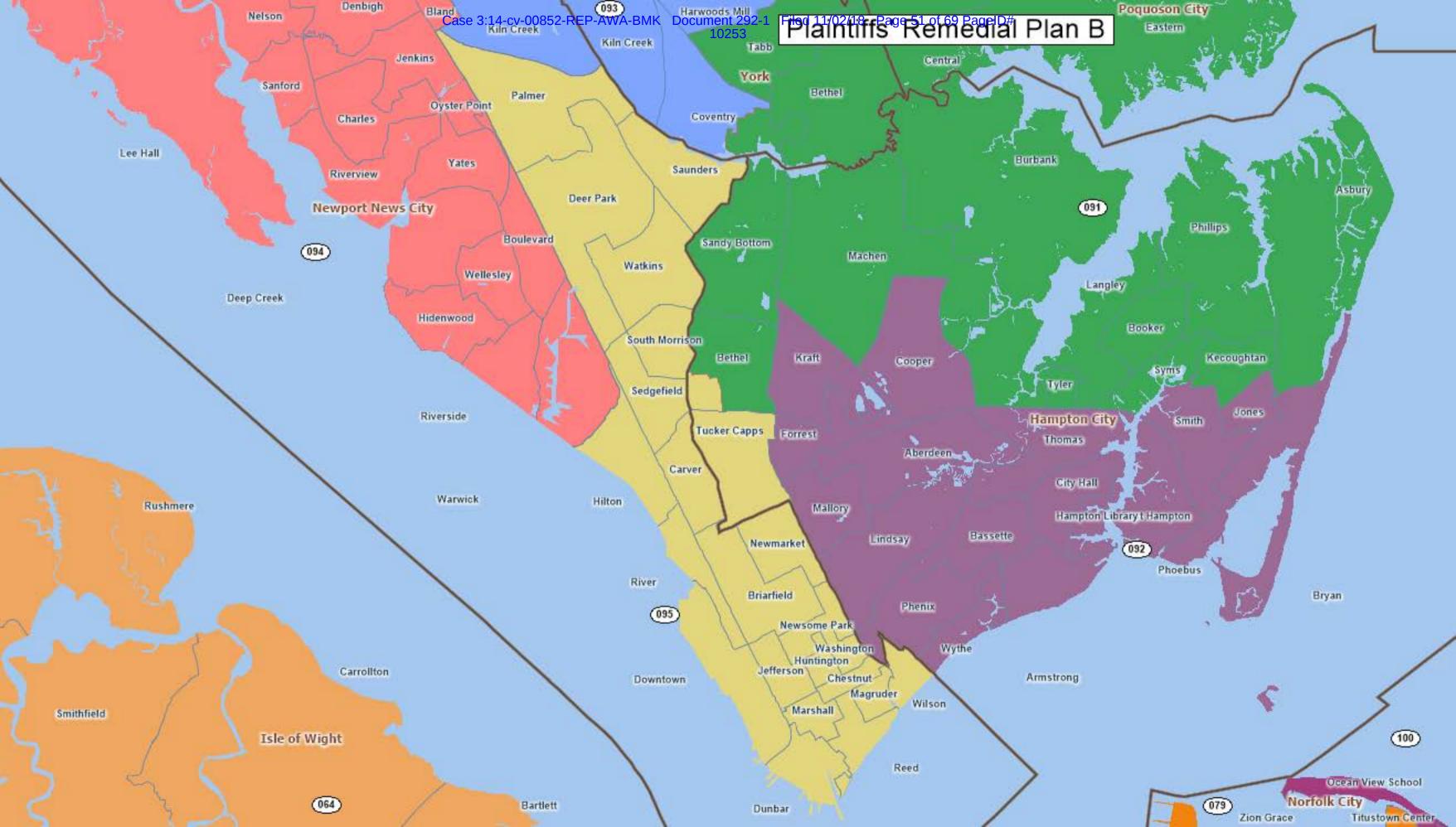


EXHIBIT H

Plaintiffs' Remedial Plan B Population Summary

							% Black												
HD	Total Population	Deviation	% Deviation	White	% White	Black (alone or in Part)	(alone or in Part)	Black	ec Block	Hirosole	% Hispanic	AIAN	% AIAN	Aslan	% Asian	Manual	er Nameon	Other	K Other
51001	80,508	498		76,238	94.7%	2,938	3.6%		3.3%	1,032	1.3%	198	0.2%	273	0.3%	nawri 21	0.0%	Other 378	% Other 0.5%
51002	79,491	-519		45,289	57.0%	21,234	26.7%		24.3%	14,019	17.6%	389	0.5%		5.9%	143	0.2%	5,537	7.0%
51003	80,583	573		77,178	95.8%	2,453	3.0%		2.7%	471	0.6%	89	0.1%	361	0.4%	10	0.0%	141	0.2%
51004 51005	80,446 80,600	436 590		77,768 76,060	96.7% 94.4%	1,687 2,670	2.1% 3.3%	1,487 2,217	1.8% 2.8%	833 2,219	1.0% 2.8%	127 149	0.2% 0.2%	215 279	0.3%	9 24	0.0%	323 963	0.4%
51006	79,608	-402		•	95.9%	1,847	2.3%		1.9%	1,348	1.7%	144	0.2%	233	0.3% 0.3%	11	0.0%	620	1.2% 0.8%
51007	80,146	136		74,108	92.5%	3,719	4.6%		3.9%	1,636	2.0%	144	0.2%		1.3%	18	0.0%	445	0.6%
51008	80,685	675		74,011	91.7%	3,761	4.7%		4.0%	1,558	1.9%	167	0.2%		1.9%	18	0.0%	595	0.7%
51009 51010	80,574 80,617	564 607		69,709 60,881	86.5% 75.5%	8,461 7,711	10.5% 9.6%	•	9.7% 8.2%	2,349 9,800	2.9% 12.2%	205 276	0.3% 0.3%	272 5,836	0.3%	13 34	0.0%	1,447	1.8% 5.0%
51011	80,132	122		47,632	59.4%	28,095		26,464	33.0%	4,734	5.9%	213	0.3%	1,374	7.2% 1.7%	49	0.0% 0.1%	3,995 2,072	2.6%
51012	80,492	482	0.60%	70,200	87.2%	4,022	5.0%	3,428	4.3%	1,959	2.4%	160	0.2%	4,443	5.5%	22	0.0%	587	0.7%
51013	80,579	569		48,642	60.4%	11,894	14.8%		12.9%	20,063	24.9%	397	0.5%	7,610	9.4%	65	0.1%	9,494	11.8%
51014 51015	79,407 80,630	-603 620		47,862 75,913	60.3% 94.1%	29,125 1,994	36.7% 2.5%	28,510 1,507	35.9% 1.9%	2,407 3,386	3.0% 4.2%	145 189	0.2%	561 361	0.7% 0.4%	24 17	0.0%	1,271 1,474	1.6% 1.8%
51016	79,692	-318		54,827	68.8%	22,513		21,837	27.4%	2,628	3.3%	189	0.2%	368	0.5%	7	0.0%	1,389	1.7%
51017	80,631	621		71,273	88.4%	5,959	7.4%		6.4%	2,059	2.6%	157	0.2%		2.3%	22	0.0%	639	0.8%
51018	79,450	-560		69,073	86.9%	6,596	8.3%		7.2%	4,292	5.4%	260	0.3%	943	1.2%	45	0.1%	1,563	2.0%
51019 51020	80,080 79,334	70 -676		73,554 69,268	91.9% 87.3%	5,190 7,701	6.5% 9.7%		5.8% 8.4%	1,019 2,580	1.3% 3.3%	217 173	0.3% 0.2%	332 494	0.4% 0.6%	20 21	0.0%	241 1,054	0.3% 1.3%
51021	79,608	-402		45,487	57.1%	21,051		19,164	24.1%	5,567	7.0%	225	0.3%		11.5%	95	0.1%	1,559	2.0%
51022	79,307	-703	-0.88%	59,135	74.6%	17,825		17,029	21.5%	1,773	2.2%	192	0.2%	1,019	1.3%	26	0.0%	565	0.7%
51023	79,330	-680		62,083	78.3%	13,394		12,524	15.8%	2,087	2.6%	313	0.4%		2.5%	34	0.0%	914	1.2%
51024 51025	79,678 80,011	-332 1		70,684 73,736	88.7% 92.2%	7,017 3,245	8.8% 4.1%		8.1% 3.4%	1,424 2,893	1.8% 3.6%	428 148	0.5% 0.2%	442 950	0.6% 1.2%	21 11	0.0%	446 1,258	0.6% 1.6%
51026	80,688	678		67,806	84.0%	4,260	5.3%		4.4%	9,906	12.3%	264	0.3%		2.3%	64	0.1%	5,170	6.4%
51027	79,675	-335		52,878	66.4%	20,369	25.6%		23.9%	5,362	6.7%	328	0.4%	2,453	3.1%	41	0.1%	2,531	3.2%
51028 51029	79,304 79,851	-706 -159		56,206 68,575	70.9% 85.9%	16,476 5,669	20.8% 7.1%	14,841	18.7% 5.9%	7,076	8.9% 8.3%	403 248	0.5%		2.5%	85 20	0.1%	2,658	3.4%
51030	80,583	573		62,914	78.1%	13,207		4,732 11,938	14.8%	6,597 5,030	6.2%	275	0.3% 0.3%	1,106 802	1.4%	20 59	0.0% 0.1%	3,382 2,448	4.2% 3.0%
51031	79,210	-800		50,345	63.6%	17,494		15,955	20.1%	11,324	14.3%	470	0.6%		5.8%	130	0.2%	4,161	5.3%
51032	80,268	258		55,738	69.4%	6,846	8.5%	-	7.4%	7,420		213	0.3%	-	16.1%	40	0.0%	2,189	2.7%
51033	80,550 80,722	540 712		70,393	87.4%	4,657	5.8%	•	4.8%	5,090	6.3%	194	0.2%	-	2.7%	47	0.1%	-	2.2%
51034 51035	80,722	203		61,693 53,780	76.4% 67.0%	3,137 4,431	3.9% 5.5%		3.2% 4.8%	5,819 8,037	7.2% 10.0%	152 212	0.2%	11,696 16,330	14.5% 20.4%	37 56	0.0% 0.1%	1,729 2,780	2.1% 3.5%
51036	79,746	-264		53,210	66.7%	8,034	10.1%	-	9.0%	8,819	11.1%	247		12,776	16.0%	32	0.0%	3,187	4.0%
51037	80,255	245		47,377	59.0%	7,154	8.9%		7.8%	10,555	13.2%	258		19,197	23.9%	47	0.1%	3,605	4.5%
51038 51039	80,758 80,710	748 700		42,448 46,876	52.6% 58.1%	8,542 8,318	10.6% 10.3%	-	9.8% 9.4%	25,694 15,374	31.8% 19.0%	508 384		15,293 15,794	18.9% 19.6%	63 77	0.1% 0.1%	10,919 6,603	13.5% 8.2%
51040	80,729	719		55,837	69.2%	5,891	7.3%		6.3%	7,868	9.7%	240		13,863	17.2%	78	0.1%	2,649	3.3%
51041	80,792	782		54,579	67.6%	5,343	6.6%		5.7%	9,941	12.3%	183		15,266	18.9%	62	0.1%	2,885	3.6%
51042	79,964	-46		55,174	69.0%	9,089	11.4%		10.1%	7,461	9.3%	261		11,008	13.8%	104	0.1%	1,939	2.4%
51043 51044	80,750 80,796	740 786		47,821 44,799	59.2% 55.4%	15,299 18,844		14,109 17,690	17.5% 21.9%	12,611 19,469	15.6% 24.1%	291 413	0.4% 0.5%	•	12.4% 6.6%	81 90	0.1% 0.1%	4,915 9,136	6.1% 11.3%
\$1045	80,240	230		59,905	74.7%	10,197	12.7%		11.8%	11,072	13.8%	363	0.5%	-	3.9%	63	0.1%	4,791	6.0%
51046	80,333	323	0.40%	41,531	51.7%	23,914	29.8%	22,577	28.1%	13,746	17.1%	293	0.4%	6,546	8.1%	87	0.1%	5,911	7.4%
51047	80,757	747		61,673	76.4%	4,477	5.5%	-	4.8%	10,754	13.3%	427	0.5%		9.3%	56	0.1%	-	5.3%
51048 51049	79,492 80,609	-518 599		63,919 42,754	80.4% 53.0%	3,802 14,797	4.8%	3,291 13,754	4.1% 17.1%	5,831 21,749	7.3% 27.0%	179 497	0.2% 0.6%	-	10.3% 12.6%	48 105	0.1% 0.1%	1,318 9,557	1.7% 11.9%
51050	80,677	667		50,040	62.0%	12,619		11,036	13.7%	21,171	26.2%	450	0.6%	5,698	7.1%	114	0.1%	9,436	11.7%
51051	80,372	362		55,264	68.8%	13,854		12,462		10,775	13.4%	444	0.6%	-	5.9%	85	0.1%	-	4.7%
51052 51053	79,290 80,049			33,564 48,549	42.3% 60.6%	26,018 4,895	32.8% 6.1%	23,892	30.1% 5.4%	23,127 16,791	29.2% 21.0%	663 400	0.8%	5,377 16,424	6.8% 20.5%	99 45	0.1% 0.1%	10,940 7,101	13.8% 8.9%
51054	80,155			58,394	72.9%	15,595		4,294 14,128		6,404	8.0%	283	0.5%	-	20.3%	45 86	0.1%		3.2%
51055	79,578			63,245	79.5%	13,636		12,766		2,068		305	0.4%	881	1.1%	36	0.0%	695	0.9%
51056	79,641	-369		62,464	78.4%	11,307		10,499	13.2%	1,859			0.3%			24	0.0%	503	0.6%
51057 51058	80,778 80,767	768 757		55,937 71,271	69.2% 88.2%	14,978 6,129		13,861 5,290	17.2% 6.5%	5,761 2,569	7.1% 3.2%	250 160	0.3% 0.2%	•	7.2% 1.6%	49 20	0.1% 0.0%		3.0% 1.3%
51059	79,345			61,136	77.1%	16,499		15,647	19.7%	1,436		203	0.3%	•	0.6%	34	0.0%	529	0.7%
51060	79,219	-791	-0.99%	50,287	63.5%	27,314	34.5%	26,636	33.6%	1,407	1.8%	227	0.3%	368	0.5%	22	0.0%	620	0.8%
51061	79,792			50,089	62.8%	27,647		26,906		2,085			0.3%			23	0.0%	958	1.2%
51062 51063	79,916 79,436			45,082 32,019	56.4% 40.3%	25,766 45,165		24,391 44,174		9,308 2,391			0.5% 0.3%			97 37	0.1% 0.0%	5,117 999	6.4% 1.3%
51064	79,452			52,144	65.6%	24,508		23,500		2,744			0.5%			119	0.1%	767	1.0%
51065	79,871	-139		65,874	82.5%	10,508		9,876		1,890			0.2%			29	0.0%	514	0.6%
51066	79,397 70,633			60,025	75.6%	14,502		13,536		3,767			0.4%	-		46 75	0.1%	-	1.9%
51067 51068	79,633 79,334			53,298 65,701	66.9% 82.8%	4,972 8,977	6.2% 11.3%	4,333 8,330		7,838 2,922			0.2% 0.2%			/5 23	0.1% 0.0%	2,654 960	3.3% 1.2%
51069	80,340			27,681	34.5%	42,643		41,317		11,228		408	0.5%	1,600	2.0%	100	0.1%	7,001	8.7%
51070				29,522	37.2%			45,096		3,020			1.2%			48	0.1%		1.9%
51071 51072	79,515 80,257			30,507 57,681	38.4% 71.9%	44,831 11,779		43,728 10,908		1,909 4,576			0.3% 0.3%			38 30	0.0% 0.0%		0.8% 2.3%
51073	79,730			58,639	73.5%	11,104		10,286		6,005			0.3%			39	0.0%		3.4%
51074	79,242	-768	-0.96%	25,109	31.7%	49,976	63.1%	48,632	61.4%	2,725	3.4%	230	0.3%	2,133	2.7%	41	0.1%	1,196	1.5%
51075 51076	79,287 79,530			35,158 40,644	44.3% 51.1%	42,555 35,826		41,910 34,734		1,616 2,360			0.3% 0.3%			24 52	0.0% 0.1%	761 644	1.0% 0.8%
51076	79,530 80,448			35,638	44.3%	40,456		39,019		4,100			0.3%			60			1.9%
51078	80,037	27	0.03%	59,510	74.4%	14,949	18.7%	13,932	17.4%	3,395	4.2%	333	0.4%	2,979	3.7%	49	0.1%	750	0.9%
S1079	80,217	207	0.26%	46,482	57.9%	27,375	34.1%	26,253	32.7%	5,989	7.5%	563	0.7%	2,242	2.8%	187	0.2%	1,734	2.2%

51080	79,924	-86	-0.11%	32,607	40.8%	44,098	55.2%	42,761	53.5%	2,389	3.0%	336	0.4%	1,229	1.5%	102	0.1%	820	1.0%
51081	80,691	681	0.85%	60,992	75.6%	14,384	17.8%	13,174	16.3%	4,450	5.5%	298	0.4%	2,119	2.6%	96	0.1%	1,245	1.5%
51082	79,504	-506	-0.63%	64,133	80.7%	10,250	12.9%	9,023	11.3%	4,668	5.9%	309	0.4%	2,043	2.6%	98	0.1%	1,350	1.7%
51083	80,774	764	0.95%	53,040	65.7%	20,669	25.6%	19,256	23.8%	5,123	6.3%	332	0.4%	3,478	4.3%	133	0.2%	1,647	2.0%
51084	79,655	-355	-0.44%	50,866	63.9%	18,664	23.4%	17,068	21.4%	6,111	7.7%	301	0.4%	5,968	7.5%	160	0.2%	1,730	2.2%
51085	80,754	744	0.93%	52,551	65.1%	19,037	23.6%	17,489	21.7%	5,050	6.3%	378	0.5%	5,295	6.6%	117	0.1%	1,634	2.0%
51086	80,747	737	0.92% 4	46,400	57.5%	7,132	8.8%	6,369	7.9%	17,163	21.3%	351	0.4%	15,998	19.8%	42	0.1%	8,162	10.1%
51087	79,275	-735	-0.92%	44,093	55.6%	7,429	9.4%	6,483	8.2%	11,761	14.8%	236	0.3%	19,678	24.8%	54	0.1%	5,109	6.4%
51088	80,191	181	0.23%	60,158	75.0%	12,879	16.1%	11,480	14.3%	7,188	9.0%	261	0.3%	2,106	2.6%	95	0.1%	3,356	4.2%
51089	80,517	507	0.63%	31,318	38.9%	45,497	56.5%	44,279	55.0%	2,558	3.2%	232	0.3%	1,913	2.4%	56	0.1%	751	0.9%
51090	79,22B	-782	-0.9B% 3	33,391	42.1%	38,860	49.0%	37,049	46.8%	5,285	6.7%	341	0.4%	3,379	4.3%	114	0.1%	1,859	2.3%
51091	79,503	-507	-0.63%	51,706	65.0%	22,177	27.9%	20,508	25.8%	3,604	4.5%	332	0.4%	2,719	3.4%	94	0.1%	1,009	1.3%
51092	79,959	-51	-0.06%	27,332	34.2%	49,076	61.4%	47,056	58.9%	3,528	4.4%	347	0.4%	1,317	1.6%	82	0.1%	1,037	1.3%
S1093	79,232	-778	-0.97%	53,806	67.9%	18,041	22.8%	16,524	20.9%	5,061	6.4%	268	0.3%	3,804	4.8%	137	0.2%	1,673	2.1%
51094	79,268	-742	-0.93% 4	45,286	57.1%	27,456	34.6%	25,249	31.9%	6,442	8.1%	389	0.5%	2,547	3.2%	159	0.2%	2,051	2.6%
51095	79,667	-343	-0.43%	32,062	40.2%	42,862	53.8%	40,935	51.4%	4,917	6.2%	367	0.5%	1,271	1.6%	81	0.1%	2,105	2.6%
51096	79,217	-793	-0.99%	62,755	79.2%	11,949	15.1%	10,948	13.8%	3,357	4.2%	266	0.3%	2,069	2.6%	78	0.1%	1,001	1.3%
51097	79,386	-624	-0.78%	67,533	85.1%	8,951	11.3%	8,379	10.6%	1,606	2.0%	597	0.8%	947	1.2%	29	0.0%	503	0.6%
51098	79,251	-759	-0.95%	63,155	79.7%	13,769	17.4%	12,959	16.4%	1,870	2.4%	403	0.5%	519	0.7%	23	0.0%	536	0.7%
S1099	80,332	322	0.40%	56,801	70.7%	20,709	25.8%	19,785	24.6%	2,971	3.7%	353	0.4%	551	0.7%	27	0.0%	1,183	1.5%
51100	80,680	670	0.84%	50,700	62.8%	24,232	30.0%	23,019	28.5%	6,746	8.4%	403	0.5%	1,280	1.6%	125	0.2%	2,785	3.5%

Plaintiffs' Remedial Plan B Voting Age Population Summary

							% Black	rian b	Actus w	Re Lobma:	uon Jumi	nary							
	Voting Age		*			Black (alone	•				*							_	_
HD 51001	Population 64,221	Deviation 498	Deviation 0.62%		% White 94,4%	or in Part) 2,537	in Part) 4.0%		% Black 3.8%	Hispanic 754	Hispanic 1.2%	AIAN 170	% AIAN 0.2%	Asian 226	% Asian 0.4%	HawPl 12	% HawPI 0.0%	Other 284	% Other 0.4%
51002	56,163	-519	-0.65%	33,408	59.5%	-		13,382		8,879	15.8%	264	0.3%	3,477	6.2%	100	0.1%	3,616	4.5%
51003	64,745	573	0.72%		95.9%		3.0%	1,883	2.9%	327	0.5%	70	0.1%	294	0.5%	8	0.0%	83	0.1%
51004	64,195	436	0.54%	62,070	96.7%	-	2.2%	-	2.1%	541	0.8%	97	0.1%	161	0.3%	3	0.0%	230	0.3%
51005 51006	64,337 62,988	590 -402	0.74% -0.50%	61,274 60,788	95.2% 96.5%	-	2.7% 2.0%	-	2.6% 1.8%	1,353 813	2.1% 1.3%		0.1% 0.1%	211 171	0.3% 0.3%	18 11	0.0%	622 374	0.8% 0.5%
51007	64,401	136	0.17%	59,855	92.9%	-	4.2%	-	3.8%		1.8%		0.1%	922	1.4%	18	0.0%	302	0.4%
51003	63,203	675	0.84%		92.8%		4.1%		3.8%	1,012	1.6%	128	0.2%	1,064	1.7%	16	0.0%	397	0.5%
51009	64,142	564	0.70%	-	87.5%		10.0%	-	9.8%	1,388	2.2%		0.2%	208	0.3%	13	0.0%	896	1.1%
51010 51011	57,050 62,356	607 122	0.76% 0.15%	44,095 39,559	77.3% 63.4%		9.0%	4,769 19,127	8.4% 30.7%	6,259 3,146	11.0% 5.0%		0.2% 0.2%	4,041 1,049	7.1% 1.7%	28 33	0.0% 0.0%	2,676 1,402	3.3% 1.7%
51012	69,034	482	0.60%		87.5%	-	4.6%	-		-	2.3%		0.2%		5.7%	22	0.0%	484	0.6%
51013	58,290	569	0.71%		63.0%		13.7%				22.2%		0.4%	5,600	9.6%	45	0.1%	6,227	7.7%
51014	62,379	-603	-0.75%	39,414	63.2%			21,176		-	2.3%		0.1%	415	0.7%	15	0.0%	774	1.0%
51015 51016	62,907 63,086	620 -318	0.77% -0.40%	59,863 44,381	95.2% 70.4%		2.0% 27.3%	1,132 16,985		2,048 1,595	3.3% 2.5%		0.2% 0.2%	281 276	0.4% 0.4%	14 5	0.0%	920 849	1.1% 1.1%
51017	63,576	621	0.78%	57,265	90.1%		6.2%		5.9%		2.1%		0.1%		2.2%	19	0.0%	412	0.5%
51018	59,686	-560	-0.70%	52,508	88.0%		7.9%			-	4.4%		0.2%	686		36	0.0%	990	1.2%
51019	62,844	70	0.09%	58,171	92.6%		6.0%				1.0%		0.2%	249	0.4%	15	0.0%	140	0.2%
51020 51021	62,717 58,656	-676 -402	-0.84% -0.50%	55,842 34,776	89.0% 59.3%		8.5% 24.5%	5,030 13,706		1,608 3,432	2.6% 5.9%		0.2% 0.2%	390 7,249	0.6% 12.4%	16 69	0.0%	614 1,080	0.8% 1.4%
51022	61,467	-703	-0.88%	47,057	76.6%	-		12,479		-	1.9%		0.2%	729	1.2%	21	0.0%	385	0.5%
51023	63,982	-680	-0.85%	51,425	80.4%		15.2%			-	2.4%		0.3%	•		28	0.0%	680	0.9%
51024 51025	64,424	-332	-0.41%		89.0%	-	8.7%				1.5%		0.4%	375 656	0.6%	19	0.0%	327 783	0.4%
\$1025	61,585 65,566	1 678	0.00%	57,373 56,466	93.2% 86.1%	-	3.7% 4.6%	-			2.8% 9.7%		0.1% 0.2%		1.1% 2.5%	10 62	0.0%	3,382	1.0% 4.2%
51027	59,300	-335	-0.42%	41,068	69.3%			13,465		3,347	5.6%		0.3%		3.1%	32	0.0%	1,618	2.0%
5102B	58,388	-706	-0.88%	-	73.9%			10,399		-	7.5%		0.4%		2.6%	56	0.1%	1,689	2.1%
51029 51030	61,320 61,276	-159 573	-0.20% 0.72%	53,930 48,944	87.9% 79.9%	-	6.1% 15.4%	-		4,035 3,171	6.6% 5.2%		0.2% 0.3%	849 595	1.4% 1.0%	16 42	0.0% 0.1%	2,074 1,541	2.6% 1.9%
51031	56,743	-800	-1.00%	37,294	65.7%			11,228			12.7%		0.4%		5.9%	102	0.1%	2,740	3.5%
51032	55,263	258	0.32%	39,133	70.8%	4,550	8.2%			4,881	8.8%	122	0.2%	8,777	15.9%	32	0.0%		1.9%
51033	57,140	540	0.67%	50,780	88.9%	•	5.1%			•	5.5%		0.2%	•		38	0.0%	1,127	1.4%
51034 51035	57,978 62,743	712 203	0.89% 0.25%	44,921 42,985	77.5% 68.5%	_	3.7% 5.4%	-		-	6.6% 9.5%		0.1% 0.2%	-	14.7% 20.1%	29 51	0.0% 0.1%	1,138 2,065	1.4% 2.6%
51036	61,859	-264	-0.33%	-	69.6%		9.0%	-		-	9.8%		0.2%		15.4%	29	0.0%	2,003	2.7%
51037	63,480	245	0.31%	38,998	61.4%	-	8.4%			-	12.2%	191		14,688	23.1%	39	0.0%		3.3%
51038	62,463	748	0.93%		54.3%		9.8%			-	29.9%			12,217	19.6%	41	0.1%	7,851	9.7%
51039 51040	61,870 58,415	700 719	0.87% 0.90%		60.3% 70.3%		9.4% 6.8%			-	17.7% 9.1%			12,080 10,133	19.5% 17.3%	58 52	0.1% 0.1%	-	5.9% 2.3%
51041	60,765	782	0.98%	-	69.1%	-	5.9%			-	11.5%			11,598		46	0.1%	-	2.5%
51042	58,066	-46	-0.06%		70.7%		10.1%	5,523	9.5%	4,910	8.5%		0.2%			75	0.1%		1.6%
51043	62,318	740	0.92%		61.9%			10,418		-	14.2%		0.3%			65	0.1%		4.2%
51044 51045	59,112 67,692	786 230	0.98% 0.29%	33,967 51,797	57.5% 76.5%		22.5% 11.8%	12,763 7,546			21.8% 12.3%		0.3% 0.4%		6.9% 4.1%	63 57	0.1% 0.1%	6,186 3,534	7.7% 4.4%
51046	66,262	323	0.40%		54.1%			17,958		-	15.5%		0.3%			74	0.1%		5.4%
51047	68,384	747	0.93%		77.7%		5.2%			-	12.4%		0.4%			42	0.1%	-	4.1%
51048 51049	64,068 66,373	·518 599	-0.65% 0.75%		81.0% 55.5%	-	4.9%	2,799 10,818			6.9% 24.6%		0.2% 0.5%	-		42 79	0.1% 0.1%	-	1.3% 8.8%
51050	55,689	667		35,574	63.9%		14.8%				24.1%		0.3%			77	0.1%		7.6%
51051	58,448	362		41,641	71.2%	•	15.8%			6,847	11.7%		0.4%	3,531	6.0%	67	0.1%		3.1%
51052		-720			45.3%	-		16,793			26.5%					80	0.1%		9.1%
51053 51054	62,827 57,249	39 145			62.3% 74.9%	-	5.7% 18.1%	-			19.6% 6.9%			13,039 1,416		40 57	0.1% 0.1%		6.4% 2.1%
51055		-432			80.0%	-	17.0%			-	2.2%		0.3%				0.0%	462	0.6%
51056		-369			79.0%		14.6%				1.9%		0.2%				0.0%	295	0.4%
51057 51058	68,024 61,395	768 757	0.96% 0.95%		71.8% 89.5%			10,520 4,117			6.2% 2.5%						0.0%	1,682 642	2.1% 0.8%
51058	62,208	-665		-	77.8%	-		12,344			1.5%		0.1% 0.2%				0.0%	361	0.5%
51060		-791			65.4%			20,290			1.5%						0.0%	389	0.5%
51061		-218		40,447	63.9%			21,112			2.2%						0.0%	657	0.8%
51062 51063	•	•94 •574		35,685 25,695	60.0% 41.1%			16,925 34,613			10.2% 2.5%						0.1% 0.0%	3,453 677	4.3% 0.9%
51064	61,617	-558		41,079	66.7%			18,163		-	3.0%		0.4%				0.1%	530	0.7%
51065	59,390	-139	-0.17%	49,180	82.8%	7,963	13.4%	7,754	13.1%	1,184	2.0%	128	0.2%	1,414	2.4%	20	0.0%	332	0.4%
51066	-	-613		45,692	78.1%		16.4%				3.9%			-		42	0.1%	895	1.1%
51067 51068		-377 -676		39,122 52,913	68.5% 84.0%		5.9% 10.6%				9.3% 3.1%			11,455 2,015		55 15	0.1% 0.0%	1,841 665	2.3% 0.8%
51069	62,908	330	0.41%	23,938	38.1%	31,428	50.0%	30,751	48.9%	7,969	12.7%	316	0.4%	1,438	2.3%	73	0.1%	5,052	6.3%
51070		-660						32,442			3.3%						0.0%	982	1.2%
51071 51072		-495 247		28,142 45,426	42.5% 73.8%		51.6% 13.9%	33,396 8,264			2.5% 5.0%		0.2% 0.2%				0.0%	506 1,222	0.6% 1.5%
51073		-280		46,958	75.3%	-		7,661			6.7%			-			0.0%		2.4%
51074	59,860	-768						35,105		-			0.2%				0.0%		1.0%
51075 51076		-723 -480		-	45.6% \$3.7%			33,315 24,593			1.7% 2.5%						0.0% 0.0%	516 431	0.7% 0.5%
51076		-450 438			47.2%	-		27,445			4.5%						0.0%		1.4%
51078	60,316	27	0.03%	45,422	75.3%	11,068	18.4%	10,711	17.8%	2,127	3.5%	251	0.3%	2,294	3.8%	37	0.0%	519	0.6%
51079	66,380	207	0.26%	39,913	60.1%	21,110	31.8%	20,649	31.1%	4,858	7.3%	494	0.6%	1,987	3.0%	155	0.2%	1,483	1.8%

51080	60,143	-86	-0.11%	26,160	43.5%	31,588	52.5%	31,021	51.6%	1,616	2.7%	254	0.3%	988	1.6%	73	0.1%	643	0.8%
51081	59,929	681	0.85%	46,145	77.0%	10,247	17.1%	9,827	16.4%	2,736	4.6%	247	0.3%	1,606	2.7%	75	0.1%	833	1.0%
51082	62,865	-506	-0.63%	52,024	82.8%	7,125	11.3%	6,572	10.5%	3,146	5.0%	245	0.3%	1,644	2.6%	78	0.1%	973	1.2%
51083	62,705	764	0.95%	43,306	69.1%	14,282	22.8%	13,702	21.9%	3,440	5.5%	252	0.3%	2,769	4.4%	82	0.1%	1,174	1.5%
S1084	58,375	-355	-0.44%	38,245	65.5%	12,905	22.1%	12,315	21.1%	3,880	6.6%	23\$	0.3%	4,662	8.0%	122	0.2%	1,205	1.5%
51085	62,044	744	0.93%	42,008	67.7%	13,228	21.3%	12,636	20.4%	3,335	5.4%	294	0.4%	4,279	6.9%	102	0.1%	1,171	1.5%
51086	59,286	737	0.92%	34,944	58.9%	5,108	8.6%	4,802	8.1%	12,059	20,3%	219	0.3%	11,609	19.6%	33	0.0%	5,779	7.2%
51087	55,787	-735	-0.92%	32,124	57.6%	5,006	9.0%	4,654	8.3%	7,895	14.2%	147	0.2%	13,563	24.3%	42	0.1%	3,505	4.4%
51088	58,354	181	0.23%	45,104	77.3%	8,479	14.5%	7,991	13.7%	4,545	7.8%	197	0.2%	1,584	2.7%	78	0.1%	2,206	2.8%
51089	62,820	507	0.63%	26,850	42.7%	32,912	52.4%	32,204	51.3%	1,899	3.0%	192	0.2%	1,700	2.7%	47	0.1%	577	0.7%
51090	60,733	-782	-0.98%	27,546	45.4%	27,979	46.1%	27,252	44.9%	3,513	5.8%	273	0.3%	2,736	4.5%	92	0.1%	1,350	1.7%
51091	58,986	-507	-0.63%	39,836	67.5%	15,250	25.9%	14,558	24.7%	2,217	3.8%	229	0.3%	2,108	3.6%	74	0.1%	671	0.8%
51092	62,382	-51	-0.06%	22,724	36.4%	36,972	59.3%	35,936	57.6%	2,373	3.8%	282	0.4%	1,067	1.7%	64	0.1%	766	1.0%
51093	62,281	-778	-0.97%	44,052	70.7%	12,756	20.5%	12,119	19.5%	3,443	5.5%	217	0.3%	3,088	5.0%	101	0.1%	1,169	1.5%
51094	60,264	-742	-0.93%	36,779	61.0%	18,647	30.9%	17,735	29.4%	4,254	7.1%	305	0.4%	2,080	3.5%	117	0.1%	1,485	1.9%
51095	60,645	-343	-0.43%	26,657	44.0%	30,437	50.2%	29,594	48.8%	3,319	5.5%	283	0.4%	1,049	1.7%	61	0.1%	1,545	1.9%
S1096	61,067	-793	-0. 9 9%	49,447	81.0%	8,583	14.1%	8,227	13.5%	2,119	3.5%	192	0.2%	1,578	2.6%	57	0.1%	661	0.8%
51097	60,024	-624	-0.78%	51,473	85.8%	6,626	11.0%	6,433	10.7%	969	1.6%	451	0.6%	702	1.2%	20	0.0%	322	0.4%
51098	62,740	-759	-0.95%	50,614	80.7%	10,481	16.7%	10,201	16.3%	1,205	1.9%	322	0.4%	395	0.6%	17	0.0%	385	0.5%
51099	63,534	322	0.40%	46,161	72.7%	15,464	24.3%	15,150	23.8%	1,916	3.0%	278	0.3%	421	0.7%	22	0.0%	747	0.9%
51100	63,387	670	0.84%	41,814	66.0%	17,524	27.6%	17,066	26.9%	4,344	5.9%	322	0.4%	1,030	1.6%	104	0.1%	1,858	2.3%

EXHIBIT I

Case 3:14-cv-00852-REP-AWA-BMK Document 292-1 Filed 11/02/18 Page 58 of 69 PageID# Plan Name: Plaintiffs' Remedial Plan B 10260

Plan Type:

Date: 11/2/2018 Time: 1:31:20AM

Administrator:

Measures of Compactness

1	1	/2	/2	0	1	8

Sum	N/A	N/A	N/A
Min	0.16	1.23	0.09
Max	0.62	2.95	0.63
Mean	0.36	1.90	0.26
Std. Dev.	0.11	0.31	0.10

DISTRICT	Reock	Schwartzberg	Polsby- Popper
51001	0.26	1.69	0.30
51002	0.30	2.17	0.18
51003	0.28	1.84	0.21
51004	0.49	1.97	0.20
51005	0.19	2.29	0.17
51006	0.27	1.82	0.26
51007	0.50	1.81	0.25
51008	0.47	1.83	0.26
51009	0.35	1.83	0.24
51010	0.23	2.16	0.18
51011	0.59	1.80	0.26
51012	0.39	1.95	0.22
51013	0.16	2.53	0.13
51014	0.24	2.34	0.16
51015	0.55	1.52	0.34
51016	0.36	2.11	0.18
51017	0.25	2.95	0.09
51018	0.62	1.92	0.24
51019	0.43	2.09	0.17
51020	0.27	2.28	0.15
51021	0.42	1.74	0.31
51022	0.20	2.59	0.11
51023	0.26	2.25	0.15
51024	0.44	1.78	0.25
51025	0.26	2.14	0.18
51026	0.46	1.57	0.36
51027	0.50	1.93	0.24
51028	0.39	1.82	0.26
51029	0.36	1.98	0.21
51030	0.53	1.49	0.36
51031	0.38	2.11	0.19
51032	0.46	1.64	0.31
51033	0.33	1.89	0.23
51034	0.24	1.91	0.22
51035	0.20	2.11	0.19
51036	0.43	1.66	0.30
51037	0.18	2.24	0.18
51038	0.62	1.44	0.45
51039	0.35	2.16	0.19
51040	0.26	2.20	0.17
21010	0.20	2.20	0.17

DISTRICT	Reock	Schwartzberg	Polsby- Popper	
51041	0.36	1.72	0.32	
51041	0.35	2.09	0.32	
51042	0.22	2.10	0.21	
51043	0.43	1.69	0.32	
51045	0.49	1.81	0.26	
51045	0.52	1.28	0.55	
51047	0.32	1.73	0.33	
51047	0.41	2.24	0.16	
51048	0.18	2.35	0.16	
51049	0.46	1.62	0.34	
51050	0.40	2.15	0.18	
51051	0.24	1.92	0.18	
			0.23	
51053 51054	0.46 0.47	1.69 1.89	0.34	
51055	0.57	1.69	0.28	
51056	0.37	1.87	0.25	
51057	0.45	1.47	0.41	
51058	0.32	2.11	0.19	
51059	0.30	1.98	0.21	
51060	0.38	1.62	0.31	
51061	0.32	2.21	0.17	
51062	0.30	2.52	0.12	
51063	0.59	1.27	0.51	
51064	0.29	2.12	0.17	
51065	0.34	1.88	0.25	
51066	0.31	1.79	0.27	
51067	0.32	1.84	0.25	
51068	0.36	1.98	0.24	
51069	0.46	1.60	0.37	
51070	0.30	1.78	0.20	
51071	0.38	1.78	0.29	
51072	0.32	1.96	0.25	
51073	0.39	1.93	0.24	
51074	0.21	1.93	0.22	
51075	0.41	1.56	0.32	
51076	0.45	1.44	0.47	
51077	0.26	1.99	0.25	
51078	0.44	1.74	0.32	
51079	0.44	1.76	0.27	
51080	0.39	1.85	0.28	
51081	0.37	1.81	0.28	
51082	0.55	1.47	0.45	
51083	0.44	1.72	0.32	
51084	0.41	1.74	0.30	
51085	0.39	1.89	0.27	
51086	0.35	1.98	0.25	
51087	0.22	2.30	0.17	
51088	0.28	2.56	0.13	
51089	0.50	1.47	0.43	
51090	0.48	1.44	0.46	
51091	0.48	1.41	0.49	
51092	0.32	1.74	0.31	
51092	0.21	2.46	0.15	
51093	0.48	1.23	0.63	
51095	0.46	1.69	0.34	
51096	0.20	2.19	0.17	

Casen3:14PaviiCO852diREPBAWAAAWKtratDocument 292-1 Filed 11/02/18 Page 60 of 69 PageID# Plan Type: User: 10262

DISTRICT	Reock	Schwartzberg	Polsby- Popper
51097	0.43	1.73	0.21
51098	0.28	1.78	0.26
51099	0.27	1.97	0.21
51100	0.29	1.51	0.39

EXHIBIT J

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Plan Name: Plaintiffs' Remedial Plan B

Plan Type: Administrator:

Political Subdivisions Split Between Districts

Friday November 2, 2018 12:13 AM

Number of subdivisions not split:

County 82 Voting District 2,291

Number of subdivisions split into more than one district:

County 52 Voting District 82

Number of subdivision splits which affect *no* population:

County 2
Voting District 3

Split Counts

County

Cases where an area is split among 2 Districts: 25
Cases where an area is split among 3 Districts: 14
Cases where an area is split among 4 Districts: 5
Cases where an area is split among 5 Districts: 2
Cases where an area is split among 6 Districts: 1
Cases where an area is split among 7 Districts: 3
Cases where an area is split among 8 Districts: 1
Cases where an area is split among 17 Districts: 1

Voting District

Cases where an area is split among 2 Districts: 81 Cases where an area is split among 3 Districts: 1

County	Voting District	District	Population
Split Counties:			
Albemarle VA		51025	21,420
Albemarle VA		51057	37,303
Albemarle VA		51058	30,929
Albemarle VA		51059	9,318
Alexandria City VA		51045	59,633
Alexandria City VA		51046	80,333
Amherst VA		51023	10,678
Amherst VA		51024	21,675
Arlington VA		51045	14,388

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Plan Name: Plan Type:	Plaintiffs' Remedial Plan B Administrator: User:		
County	Voting District	District	Population
Split Counties	(continued):		
Arlington VA		51047	80,757
Arlington VA		51048	55,008
Arlington VA		51049	57,474
Augusta VA		51020	24,485
Augusta VA		51024	17,273
Augusta VA		51025	31,992
Bedford VA		51019	22,948
Bedford VA		51022	28,780
Bedford VA		51023	16,948
Botetourt VA		51017	4,449
Botetourt VA		51019	28,699
Campbell VA		51022	17,154
Campbell VA		51059	30,664
Campbell VA		51060	7,024
Caroline VA		51054	2,484
Caroline VA		51055	19,742
Caroline VA		51099	6,319
Chesapeake Ci	ity VA	51021	5,030
Chesapeake Ci	ity VA	51076	2,057
Chesapeake Ci	ity VA	51077	80,448
Chesapeake Ci	ity VA	51078	80,037
Chesapeake Ci	ity VA	51080	21,946
Chesapeake Ci	ity VA	51081	32,691
Chesterfield V	'A	51027	79,675
Chesterfield V		51062	57,325
Chesterfield V		51063	13,302
Chesterfield V		51065	40,407
Chesterfield V		51066	61,986
Chesterfield V		51068	44,543
Chesterfield V	'A	51069	18,998
Clarke VA		51010	4,309
Clarke VA		51033	9,725
Culpeper VA		51018	12,895
Culpeper VA		51030	33,794
Fairfax VA		51034	53,301
Fairfax VA		51035	80,213
Fairfax VA		51036	79,746
Fairfax VA		51037	57,690
Fairfax VA		51038	80,758
Fairfax VA		51039	80,710
Fairfax VA		51040	66,026
Fairfax VA		51041	80,792
Fairfax VA		51042	79,964
Fairfax VA		51043	80,750
Fairfax VA		51044	80,796
Fairfax VA		51045	6,219
Fairfax VA		51048	24,484
Fairfax VA		51049	23,135
Fairfax VA		51053	67,717
Fairfax VA		51067	70,636

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Plan Name: Plan Type:	Plaintiffs' Remedial Plan B Administrator: User:		
County	Voting District	District	Population
Split Counties	(continued):		
Fairfax VA		51086	68,789
Fauquier VA		51018	40,915
Fauquier VA		51031	15,101
Fauquier VA		51088	9,187
Fluvanna VA		51058	18,460
Fluvanna VA		51065	7,231
Franklin VA		51009	46,650
Franklin VA		51022	9,509
Frederick VA		51010	13,649
Frederick VA		51029	43,969
Frederick VA		51033	20,687
Fredericksburg	r City VA	51028	8,950
Fredericksburg		51088	15,336
Goochland VA	•	51056	17,530
Goochland VA		51065	4,187
Hampton City		51091	50,673
Hampton City		51092	79,959
Hampton City		51095	6,804
Hanover VA	***	51055	50,481
Hanover VA		51097	49,382
Henrico VA		51056	24,178
Henrico VA		51070	43,528
Henrico VA		51072	80,257
Henrico VA		51073	79,730
Henrico VA		51074	79,242
Henry VA		51009	15,434
Henry VA		51014	15,368
Henry VA		51016	23,349
James City VA		51093	20,694
James City VA		51096	46,315
King William		51097	11,575
King William		51098	4,360
Loudoun VA	•••	51010	62,659
Loudoun VA		51032	80,268
Loudoun VA		51033	50,138
Loudoun VA		51034	27,421
Loudoun VA		51067	8,997
Loudoun VA		51086	11,958
Loudoun VA		51087	70,870
Lunenburg VA		51061	8,470
Lunenburg VA		51075	4,444
Lynchburg City		51022	23,864
Lynchburg City		51023	51,704
Montgomery V		51007	35,026
Montgomery V		51008	17,599
Montgomery V		51012	41,767
Nelson VA		51020	7,776
Nelson VA		51059	7,244
Newport News	s City VA	51093	28,588
Newport News		51094	79,268
Pozzirowa	<i>y</i> -	31071	77,200

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Plan Name: Plaintiffs' Remedial Plan B Administrator: Plan Type: User:		
County Voting District	District	Population
Split Counties (continued):		
Newport News City VA	51095	72,863
Norfolk City VA	51079	42,660
Norfolk City VA	51083	5,271
Norfolk City VA	51089	80,517
Norfolk City VA	51090	79,228
Norfolk City VA	51100	35,127
Pittsylvania VA	51014	20,984
Pittsylvania VA	51016	42,522
Portsmouth City VA	51079	37,557
Portsmouth City VA	51080	57,978
Prince George VA	51062	0
Prince George VA	51063	5,713
Prince George VA	51064	30,012
Prince William VA	51002	45,961
Prince William VA	51013	66,306
Prince William VA	51031	64,109
Prince William VA	51040	14,703
Prince William VA	51050	42,856
Prince William VA	51051	80,372
Prince William VA	51052	79,290
Prince William VA	51087	8,405
Pulaski VA	51007	29,841
Pulaski VA	51012	5,031
Richmond City VA	51068	34,791
Richmond City VA	51069	61,342
Richmond City VA	51070	28,566
Richmond City VA	51071	79,515
Roanoke City VA	51011	80,132
Roanoke City VA	51017	16,900
Roanoke VA	51008	33,094
Roanoke VA	51017	59,282
Rockingham VA	51015	4,966
Rockingham VA	51025	26,599
Rockingham VA	51026	31,774
Rockingham VA	51058	12,975
Russell VA	51003	4,583
Russell VA	51004	24,314
Smyth VA	51005	11,877
Smyth VA	51006	20,331
Spotsylvania VA	51054	77,671
Spotsylvania VA	51055	9,355
Spotsylvania VA	51056	4,780
Spotsylvania VA	51088	30,591
Stafford VA	51002	33,530
Stafford VA	51028	70,354
Stafford VA	51088	25,077
Suffolk City VA	51064	7,112
Suffolk City VA	51076	77,473
Virginia Beach City VA	51021	74,578
Virginia Beach City VA	51081	48,000

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Plan Name: Pl Plan Type:	aintiffs' Remedial Plan B	Administrator: User:		
County	Voting District		District	Population
Split Counties (co	ontinued):			
Virginia Beach Cit			51082	79,504
Virginia Beach Cit	-		51083	75,503
Virginia Beach Cit	-		51084	79,655
Virginia Beach Cit	-		51085	80,754
Virginia Beach Cit	ty VA		51100	0
Warren VA			51015	9,629
Warren VA			51018	18,267
Warren VA			51029	9,679
Washington VA			51004	26,563
Washington VA			51005	28,313
Wise VA			51001	27,786
Wise VA			51004	13,666
York VA			51091	16,680
York VA			51093	15,882
York VA			51096	32,902
Split VTDs :				
Albemarle VA	East Ivy		51025	1,145
Albemarle VA	East Ivy		51057	2,444
Albemarle VA	Free Bridge		51057	4,095
Albemarle VA	Free Bridge		51058	460
Amherst VA	Amelon		51023	1,337
Amherst VA	Amelon		51024	3,458
Amherst VA	Elon		51023	834
Amherst VA	Elon		51024	2,764
Arlington VA	Jefferson		51047	1,410
Arlington VA	Jefferson		51049	3,019
Arlington VA	Oakridge		51045	1,705
Arlington VA	Oakridge		51049	3,511
Augusta VA	Fishersville		51020	707
Augusta VA	Fishersville		51025	4,104
Augusta VA	White Hill		51020	1,157
Augusta VA	White Hill		51024	2,331
Bedford VA	Liberty High School		51019	838
Bedford VA	Liberty High School		51023	2,152
Bedford VA	Thaxton Elem School		51019	765
Bedford VA	Thaxton Elem School		51023	1,843
Chesapeake City V			51078	546
Chesapeake City V			51081	2,760
Chesterfield VA	Bailey Bridge		51027	4,353
Chesterfield VA	Bailey Bridge		51066	1,557
Chesterfield VA	Evergreen		51027	4,519
Chesterfield VA	Evergreen		51065	2,713
Clarke VA	Millwood		51010	1,693
Clarke VA	Millwood		51033	78
Fairfax VA	Baileys		51038	4,068
Fairfax VA	Baileys		51049	3,004
Fairfax VA	Belle Haven		51044	3,232
Fairfax VA	Belle Haven		51045	179
Fairfax VA	Belvoir		51043	3,167

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Plan Name: Plain Plan Type:	tiffs' Remedial Plan B	Administrator: User:		
County	Voting District		District	Population
Split VTDs (continu	ed):			
Fairfax VA	Belvoir		51044	2,216
Fairfax VA	Camelot		51039	1,381
Fairfax VA	Camelot		51053	407
Fairfax VA	Flint Hill		51035	2,035
Fairfax VA	Flint Hill		51036	3,897
Fairfax VA	Franklin		51067	1,228
Fairfax VA	Franklin		51086	3,530
Fairfax VA	Hayfield		51043	658
Fairfax VA	Hayfield		51044	3,178
Fairfax VA	Huntington		51043	5,464
Fairfax VA	Huntington		51045	320
Fairfax VA	Kinross		51067	3,186
Fairfax VA	Kinross		51086	3,128
Fairfax VA	Lake Braddock		51039	388
Fairfax VA	Lake Braddock		51041	6,417
Fairfax VA	Lane		51039	3,307
Fairfax VA	Lane		51043	2,015
Fairfax VA	Lees Corner West		51067	3,177
Fairfax VA	Lees Corner West		51086	2,463
Fairfax VA	London Towne West		51037	4,019
Fairfax VA	London Towne West		51040	1,825
Fairfax VA	Lorton		51042	0
Fairfax VA	Lorton		51043	4,353
Fairfax VA	Mosby		51035	2,906
Fairfax VA	Mosby		51037	6,928
Fairfax VA	Pohick		51041	3,303
Fairfax VA	Pohick		51042	2,489
Fairfax VA	Salona		51034	1,236
Fairfax VA	Salona		51048	2,387
Fairfax VA	Stone		51037	3,052
Fairfax VA	Stone		51067	2,902
Fairfax VA	Vale		51036	907
Fairfax VA	Vale		51067	3,094
Fairfax VA	Weyanoke		51038	5,130
Fairfax VA	Weyanoke		51039	1,022
Fairfax VA	Willow Springs		51037	3,327
Fairfax VA	Willow Springs		51040	3,764
Fairfax VA	Woodson		51037	4,956
Fairfax VA	Woodson		51041	2,358
Fairfax VA	Woodyard		51040	1,101
Fairfax VA	Woodyard		51042	1,646
Frederick VA	Parkins Mill		51010	6,942
Frederick VA	Parkins Mill		51029	1,263
Fredericksburg City			51028	698
Fredericksburg City			51028	1,523
Goochland VA	Hadensville		51056	715
Goochland VA	Hadensville		51065	1,621
Hampton City VA	Bethel		51091	4,800
Hampton City VA	Bethel		51095	548
1 j 2				2.0

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Plan Name: Plaintiff Plan Type:	s' Remedial Plan B	Administrator: User:		
County	Voting District		District	Population
Split VTDs (continued)):			
Henrico VA	Causeway		51056	767
Henrico VA	Causeway		51072	2,162
Henry VA	Axton		51014	353
Henry VA	Axton		51016	1,782
King William VA	Courthouse		51097	2,129
King William VA	Courthouse		51098	143
Loudoun VA	Belmont Ridge		51010	3,034
Loudoun VA	Belmont Ridge		51032	4,058
Loudoun VA	Countryside		51032	948
Loudoun VA	Countryside		51087	1,928
Loudoun VA	Dulles South		51067	6,329
Loudoun VA	Dulles South		51087	11
Loudoun VA	Mill Run		51032	3,722
Loudoun VA	Mill Run		51087	1,180
Loudoun VA	Park View		51086	2,336
Loudoun VA	Park View		51087	2,766
Loudoun VA	Philomont		51010	1,402
Loudoun VA	Philomont		51033	1,105
Loudoun VA	Pinebrook		51010	2,399
Loudoun VA	Pinebrook		51087	2,325
Lunenburg VA	Brown's Store		51061	1,040
Lunenburg VA	Brown's Store		51075	265
Lunenburg VA	Peoples Community Center		51061	725
Lunenburg VA	Peoples Community Center		51075	207
Lunenburg VA	Rosebud		51061	557
Lunenburg VA	Rosebud		51075	747
Lunenburg VA	Victoria Public Library		51061	1,086
Lunenburg VA	Victoria Public Library		51075	1,336
Montgomery VA	E-1		51007	10,740
Montgomery VA	E-1		51012	654
Newport News City VA			51093	3,023
Newport News City VA			51094	6,789
Newport News City VA			51093	2,317
Newport News City VA			51094	2,340
Norfolk City VA	Lafayette-Winona		51089	1,026
Norfolk City VA	Lafayette-Winona		51090	2,339
Portsmouth City VA	Nine		51079	2,752
Portsmouth City VA	Nine		51080	402
Prince George VA	Courts Bldg		51062	0
Prince George VA	Courts Bldg		51064	3,810
Prince George VA	Templeton		51063	1,044
Prince George VA	Templeton		51064	3,579
Prince William VA	Alvey		51040	2,244
Prince William VA	Alvey		51087	4,913
Prince William VA	Battlefield		51013	80
Prince William VA	Battlefield		51040	5,599
Prince William VA	Benton		51031	2,848
Prince William VA	Benton		51051	1,805
Prince William VA	Godwin		51031	3,710

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Plan Name: Pl Plan Type:	aintiffs' Remedial Plan B	Administrator: User:		
County	Voting District		District	Population
Split VTDs (conti	inued):			
Prince William VA	A Godwin		51052	4,449
Prince William VA	A Henderson		51031	3,800
Prince William VA	A Henderson		51052	2,700
Prince William VA	A Minnieville		51031	456
Prince William VA	A Minnieville		51052	4,819
Prince William VA	A Stonewall		51013	5,472
Prince William VA	A Stonewall		51050	1,141
Richmond City VA	A 707		51070	86
Richmond City VA	A 707		51071	5,576
Roanoke VA	Penn Forest		51008	1,911
Roanoke VA	Penn Forest		51017	417
Rockingham VA	Plains		51015	1,664
Rockingham VA	Plains		51026	1,998
Russell VA	Honaker		51003	1,463
Russell VA	Honaker		51004	2,591
Spotsylvania VA	Brokenburg		51054	1,530
Spotsylvania VA	Brokenburg		51055	1,384
Spotsylvania VA	Brokenburg		51056	1,562
Stafford VA	Hampton		51028	4,244
Stafford VA	Hampton		51088	1,168
Stafford VA	Whitson		51002	1,537
Stafford VA	Whitson		51088	3,512
Virginia Beach Cit	-		51083	3,841
Virginia Beach Cit	ty VA Aragona		51085	3,439
Virginia Beach Cit	ty VA Chesapeake Beach		51083	8,310
Virginia Beach Cit	ty VA Chesapeake Beach		51100	0
-	ty VA London Bridge		51082	4,803
Virginia Beach Cit	ty VA London Bridge		51084	763
Wise VA	East Pound		51001	1,168
Wise VA	East Pound		51004	1,416
York VA	Coventry		51091	3,668
York VA	Coventry		51093	5,134
York VA	Edgehill		51093	2,346
York VA	Edgehill		51096	2,989